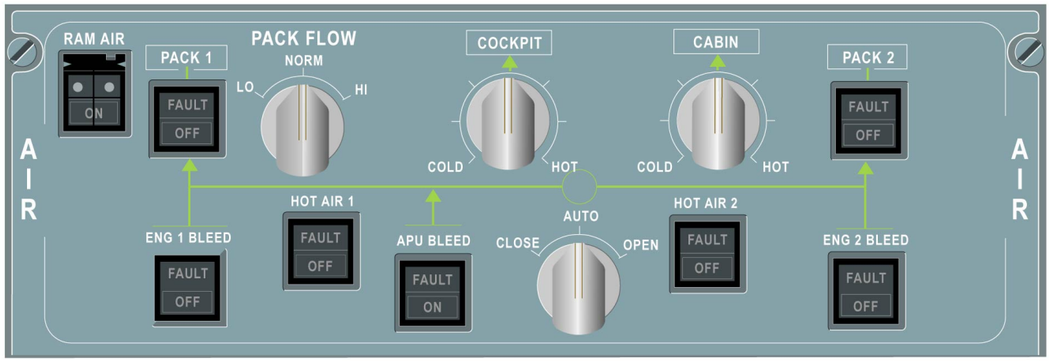
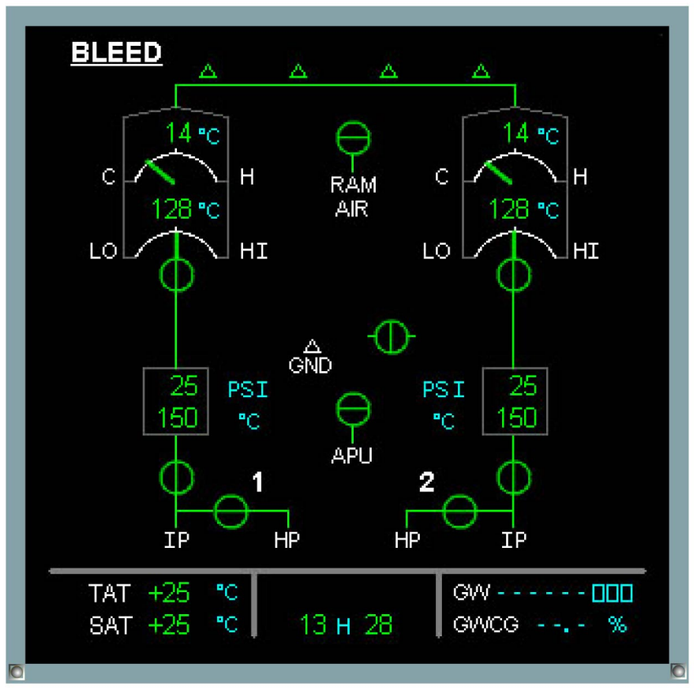
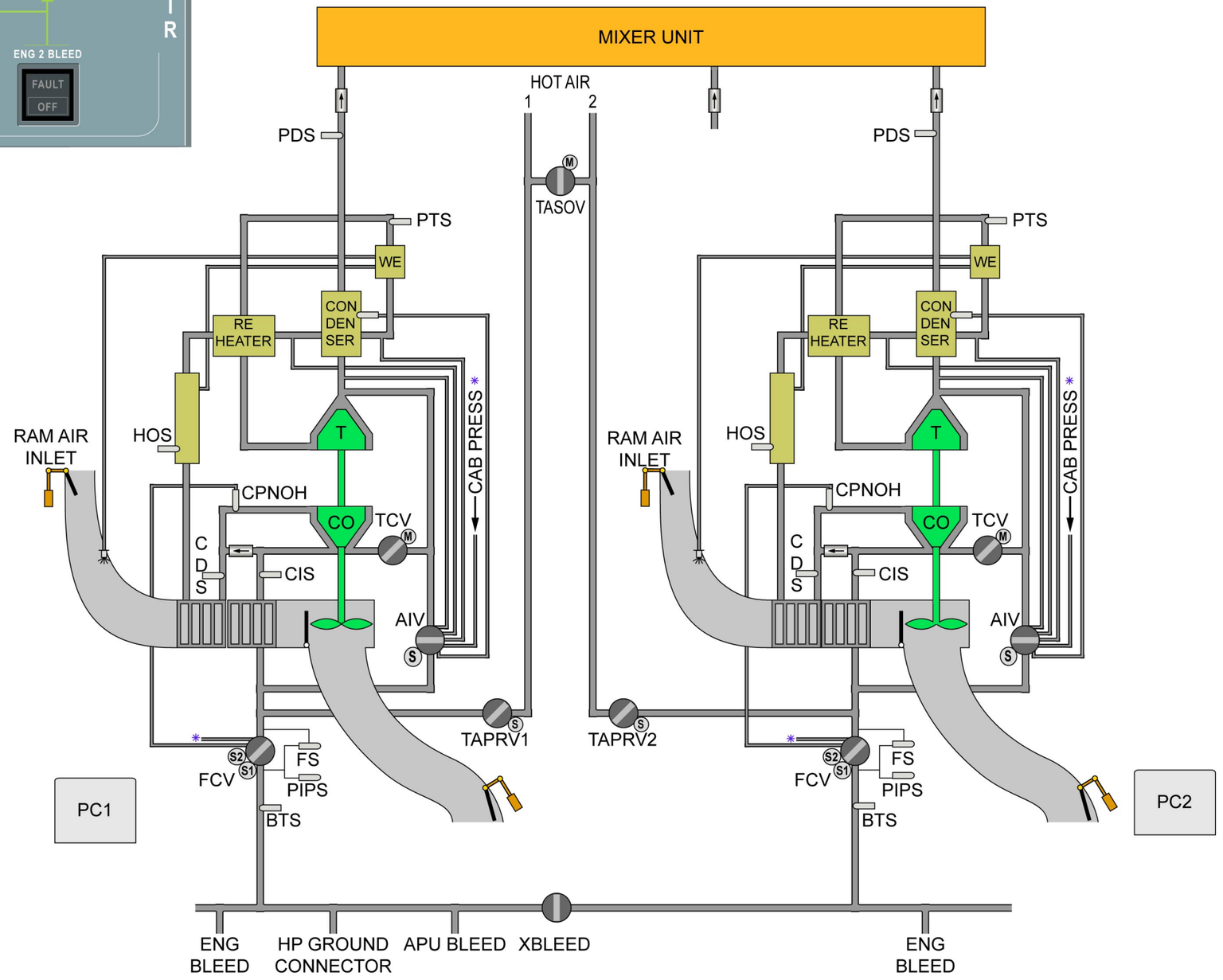
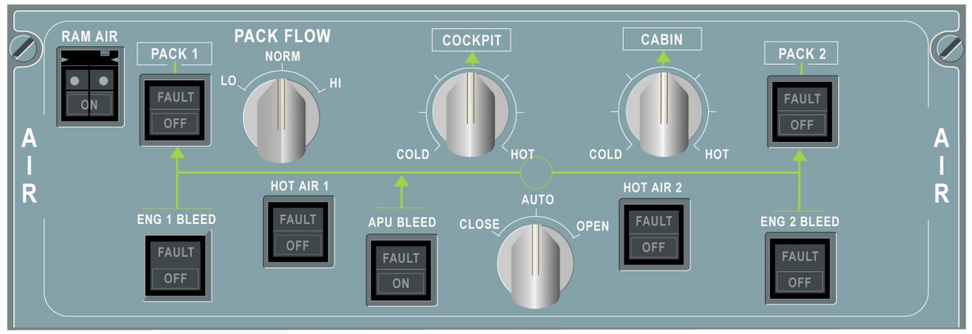
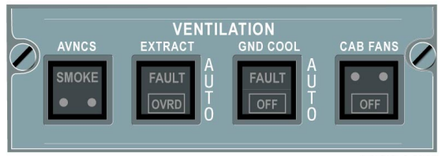
Long Range
TECHNICAL TRAINING MANUAL
A330 RR Trent 700 - T1/T1+T2, CMQ T1/T1+T2
DEBRIEFING SCHEMATICS


AIR
RAM AIR
ON
PACK 1
FAULT
OFF
PACK FLOW
NORM
LO
HI
COCKPIT
COLD
HOT
CABIN
COLD
HOT
PACK 2
FAULT
OFF
ENG 1 BLEED
FAULT
OFF
HOT AIR 1
FAULT
OFF
APU BLEED
FAULT
ON
AUTO
CLOSE
OPEN
HOT AIR 2
FAULT
OFF
ENG 2 BLEED
FAULT
OFF
AIR


BLEED
14 °C
C
H
128 °C
LO
HI
RAM AIR
14 °C
C
H
128 °C
LO
HI
GND
25
150
PSI
°C
APU
PSI
°C
25
150
1
2
IP
HP
HP
IP
TAT +25 °C
SAT +25 °C
13 H 28
GW - - - - - - □□□
GWCG - -.- %

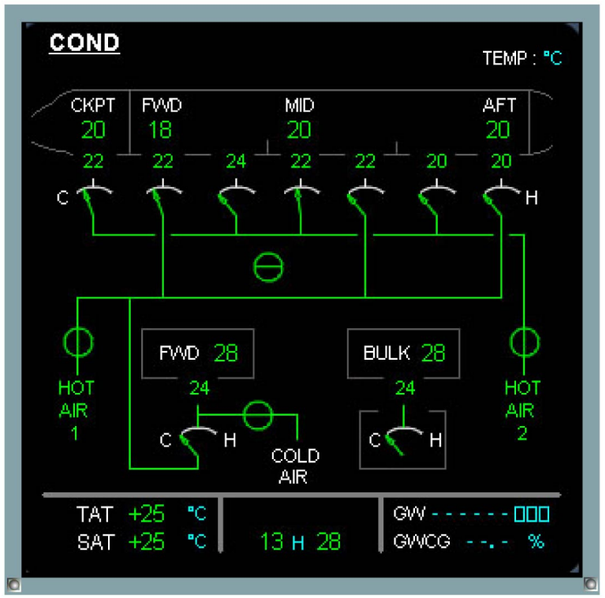

MIXER UNIT
HOT AIR
1
2
PDS
PDS
M
TASOV
PTS
PTS
WE
WE
RE HEATER
CON DEN SER
RE HEATER
CON DEN SER
*
*
CAB PRESS
CAB PRESS
RAM AIR INLET
HOS
T
CPNOH
CO
TCV
M
C
D
S
CIS
AIV
S
RAM AIR INLET
HOS
T
CPNOH
CO
TCV
M
C
D
S
CIS
AIV
S
TAPRV1
TAPRV2
S2
S1
FCV
FS
PIPS
BTS
S2
S1
FCV
FS
PIPS
BTS
PC1
PC2
ENG BLEED
HP GROUND CONNECTOR
APU BLEED
XBLEED
ENG BLEED



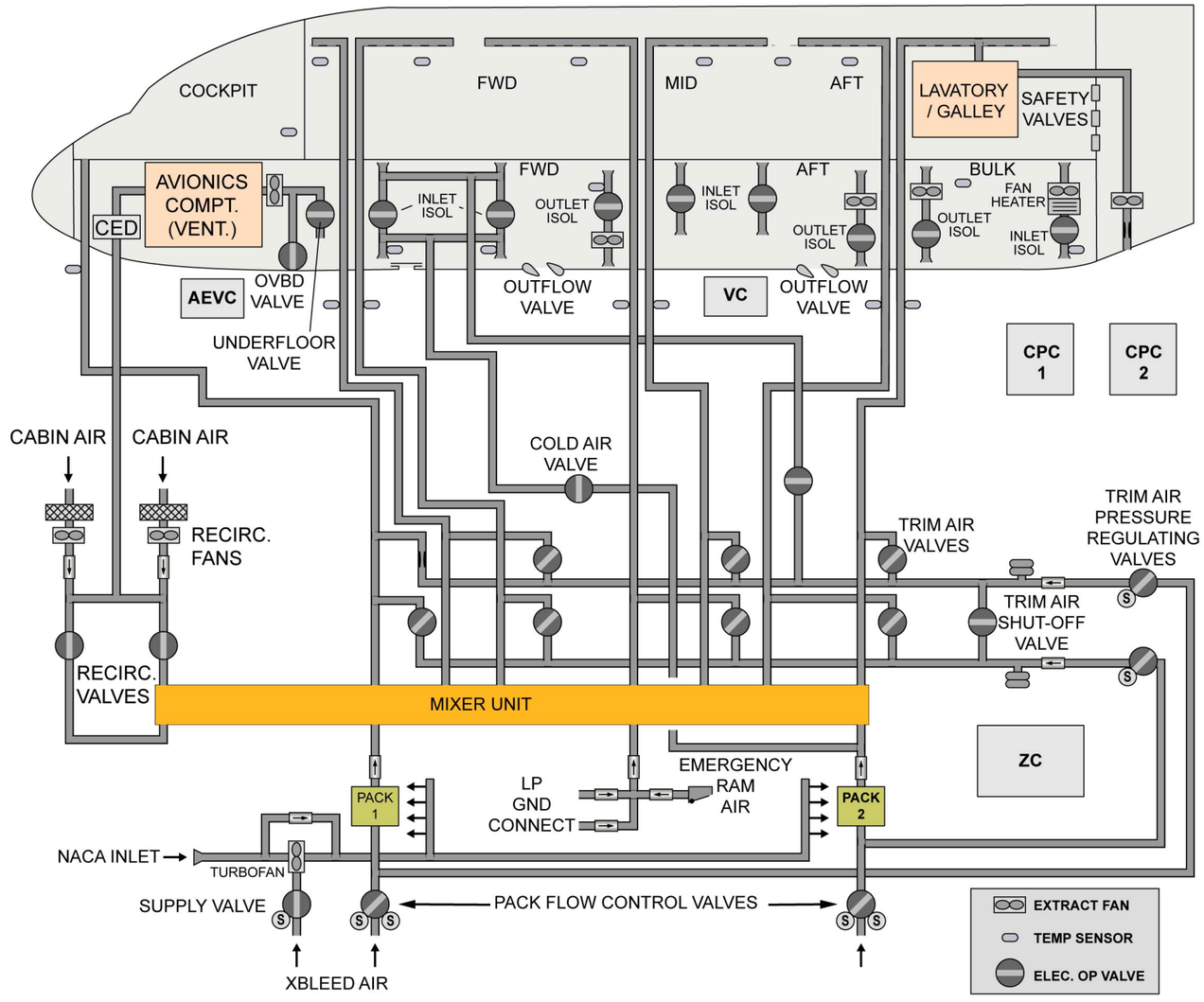


(212 VU)

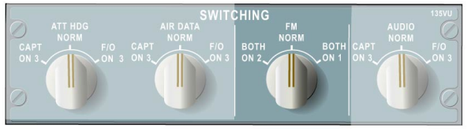
MAINTENANCE PANEL (285 VU)



(225 VU)



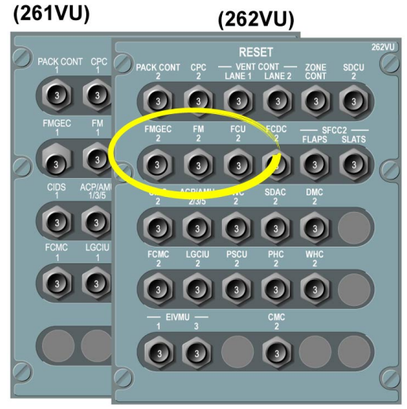
FCU



(135VU)

(261VU)

(262VU)



TAKEOVER AND PRIORITY P/BSW

SIDE STICK

DMC 1

EIVMU 1 2 3 4

ECU/ EEC 1 2 3 4

ND F/O

PFD F/O

DMC 2

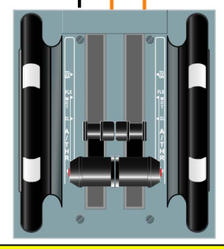
FMGEC 1

FG AP FD A/THR

FE - ABN SITUATION DET.
- BACK UP COMPUTAT.
- ALPHA FLOOR ACQ. ...

FM - NAV DATABASE
- PERFO DATABASE
- FLIGHT PLAN ...

THRUST CONTROL LEVERS



FMGEC 2

FG AP FD A/THR

FE - ABN SITUATION DET.
- BACK UP COMPUTAT.
- ALPHA FLOOR ACQ. ...

FM - NAV DATABASE
- PERFO DATABASE
- FLIGHT PLAN ...

MCDU 2

FCSC 1 2

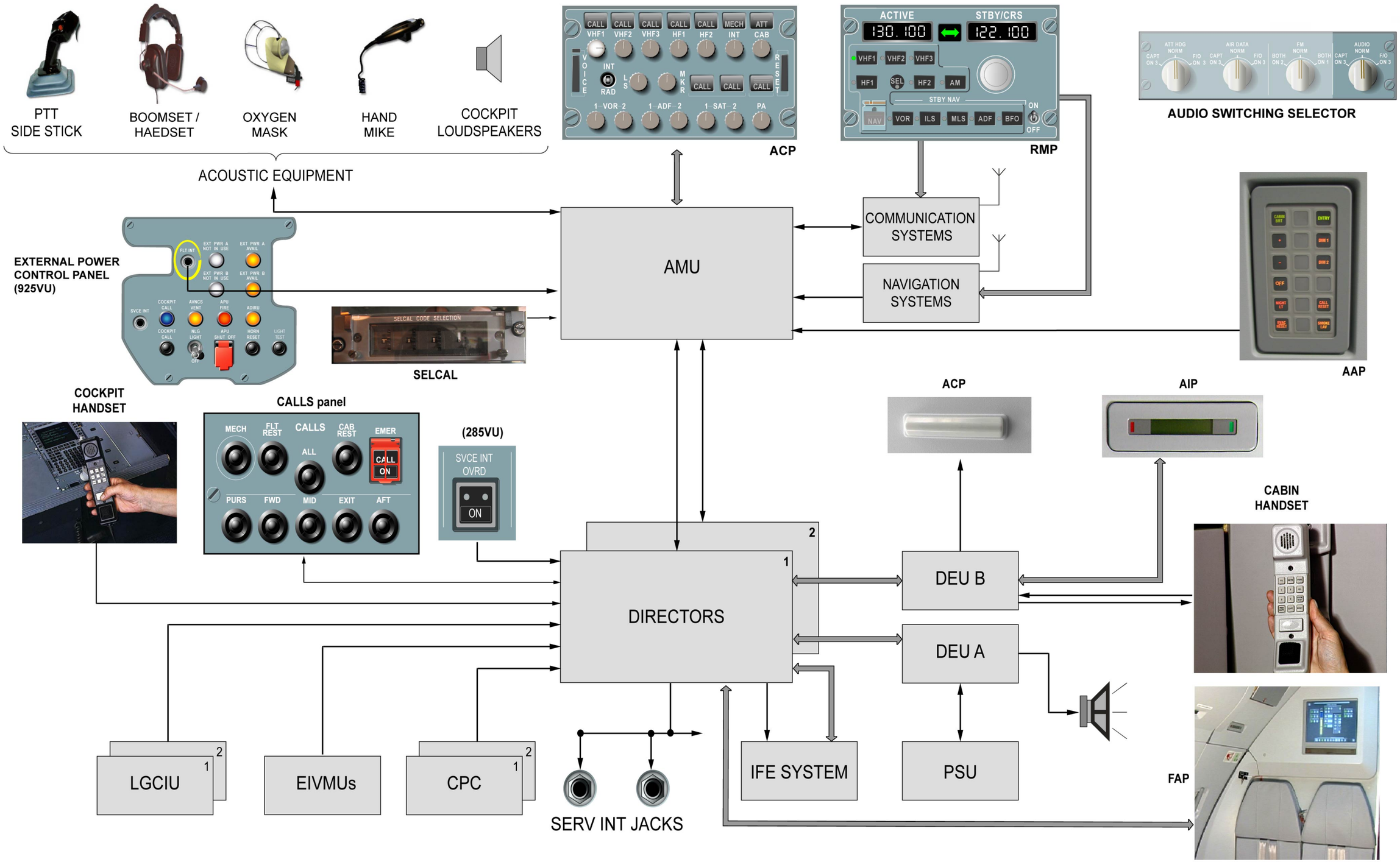
FCPC 1 2 3

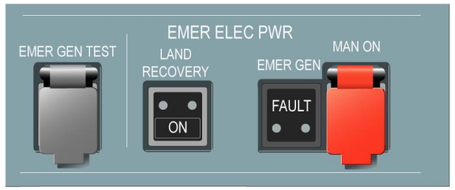
BSCU

FLIGHT CONTROLS

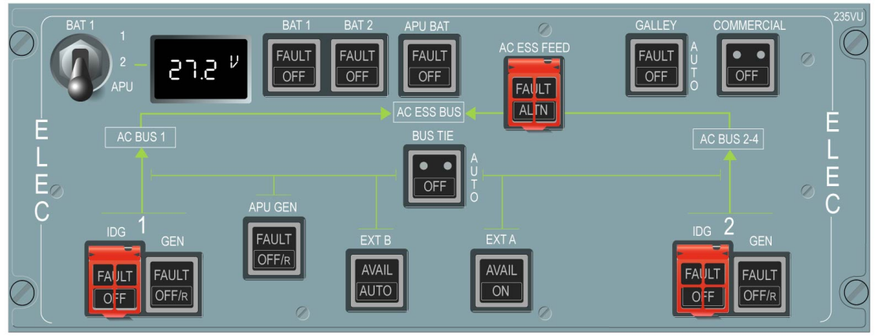
MCDU 1

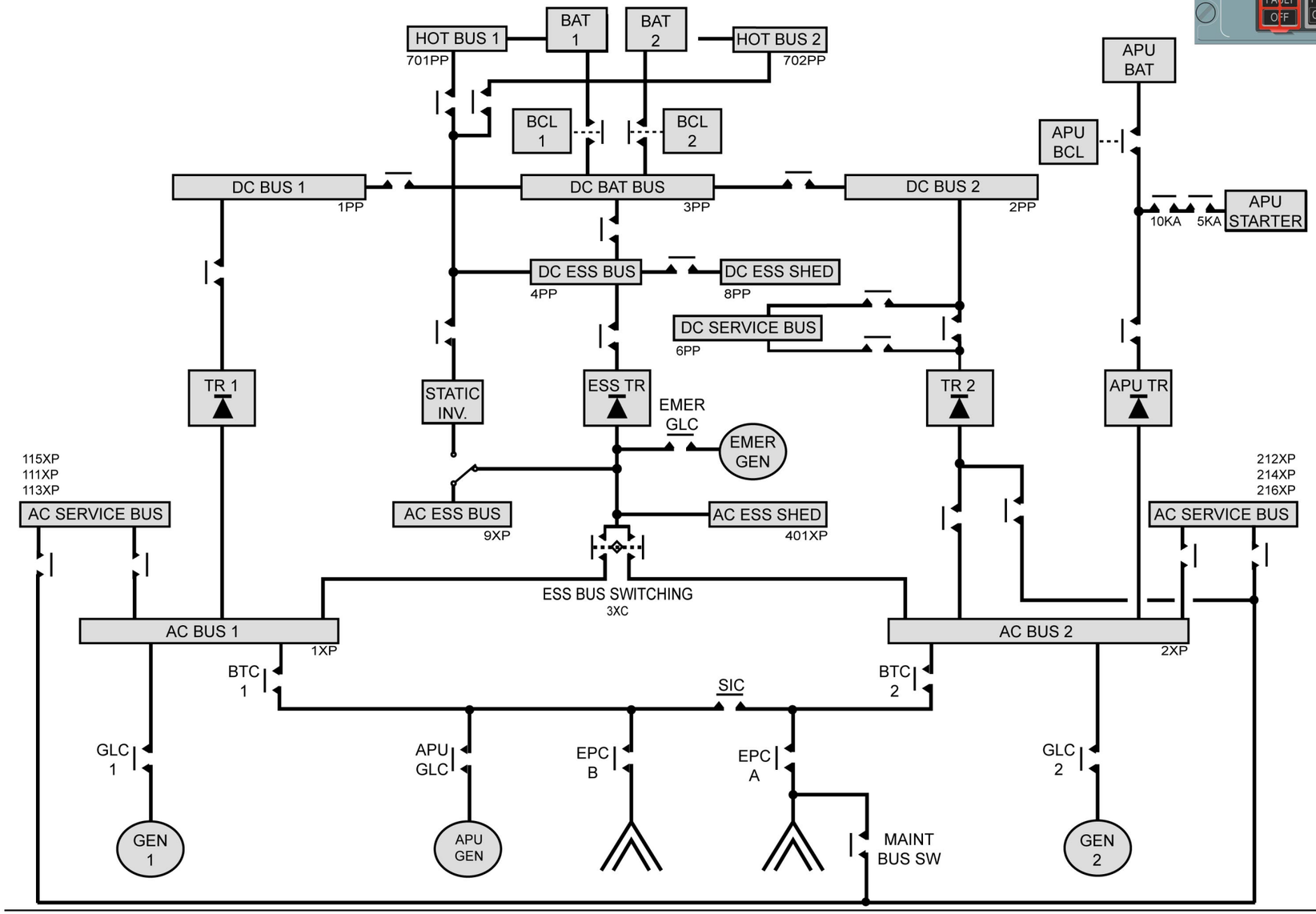
MCDU 3 (Backup)


PTT
SIDE STICK
BOOMSET /
HAEDSET
OXYGEN
MASK
HAND
MIKE
COCKPIT
LOUDSPEAKERS
ACOUSTIC EQUIPMENT
ACP
RMP
AUDIO SWITCHING SELECTOR
EXTERNAL POWER
CONTROL PANEL
(925VU)
AMU
COMMUNICATION
SYSTEMS
NAVIGATION
SYSTEMS
AAP
SELCAL
COCKPIT
HANDSET
CALLS panel
(285VU)
ACP
AIP
CABIN
HANDSET
DIRECTORS
DEU B
DEU A
LGCIU
EIVMUs
CPC
IFE SYSTEM
PSU
FAP
SERV INT JACKS

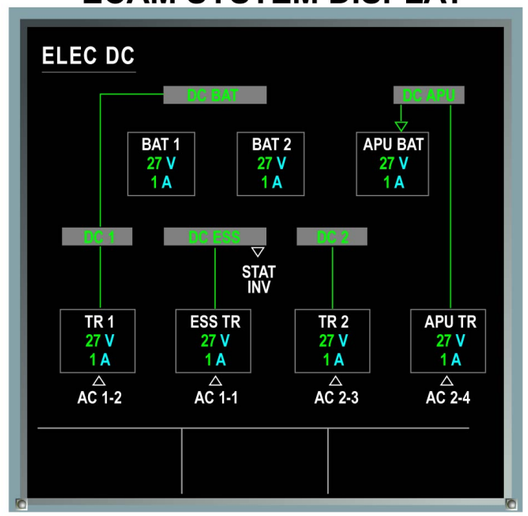


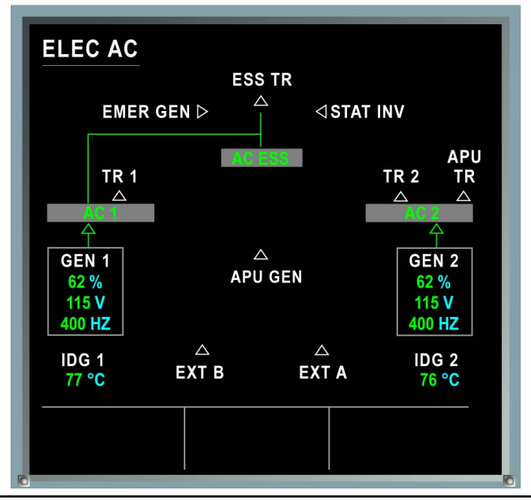
(21VU)

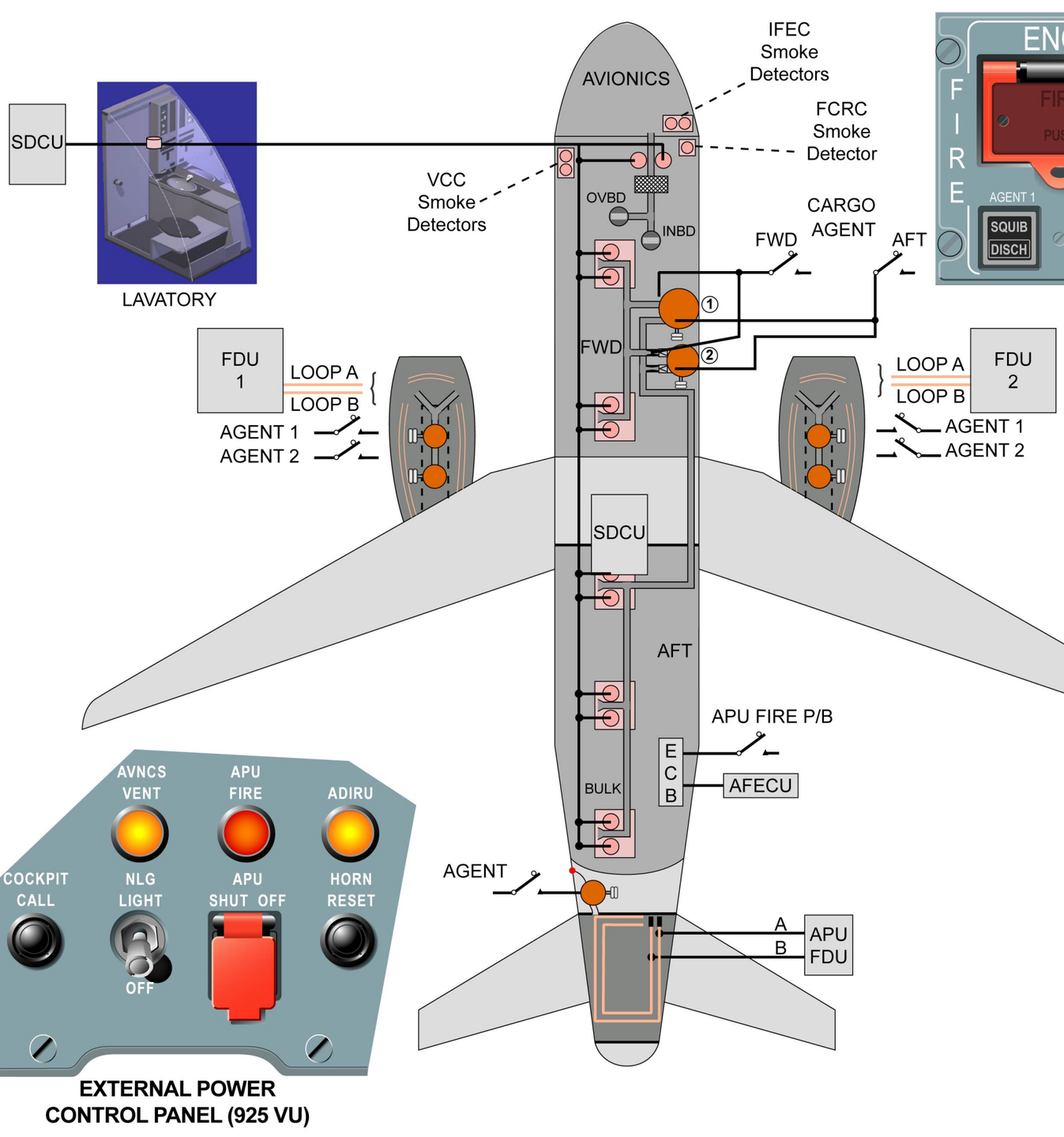




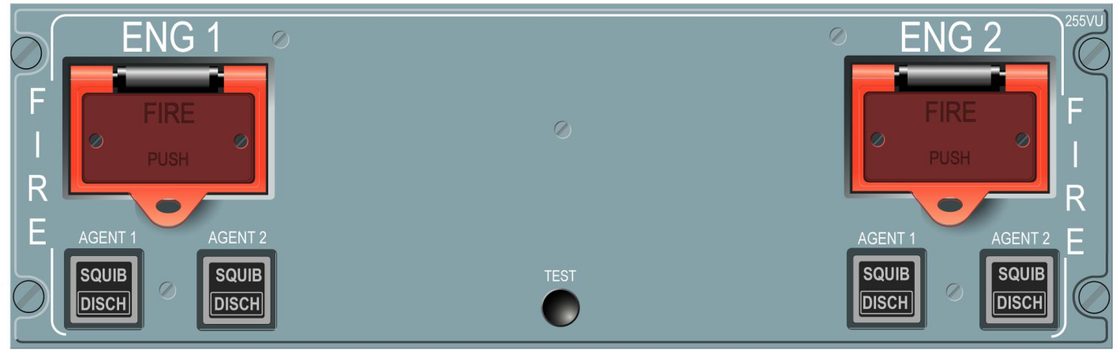
ECAM SYSTEM DISPLAY



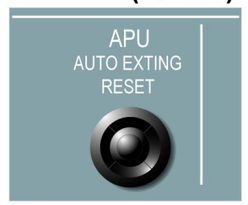


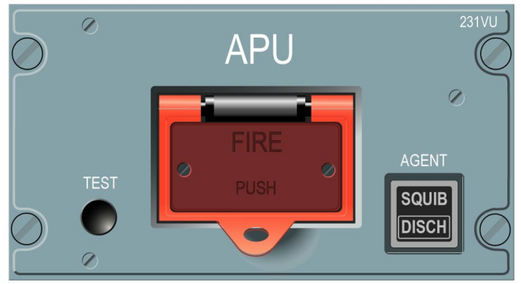


EXTERNAL POWER CONTROL PANEL (925 VU)

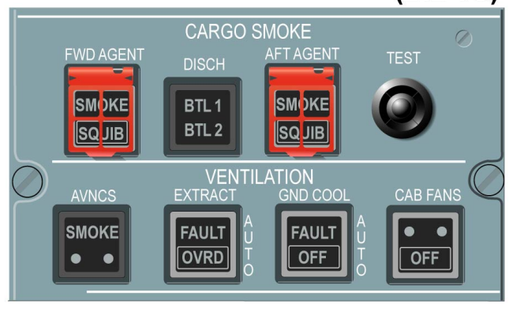


(285 VU)

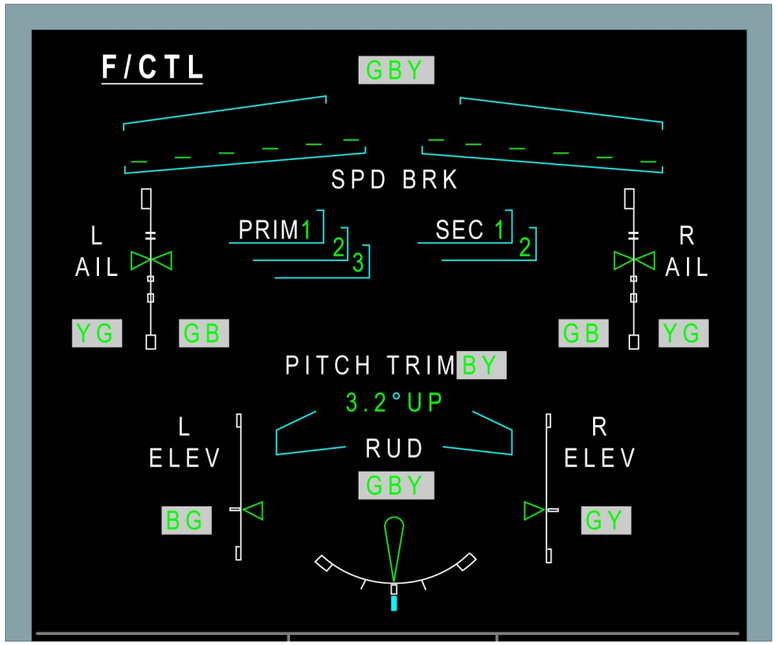




(212 VU)

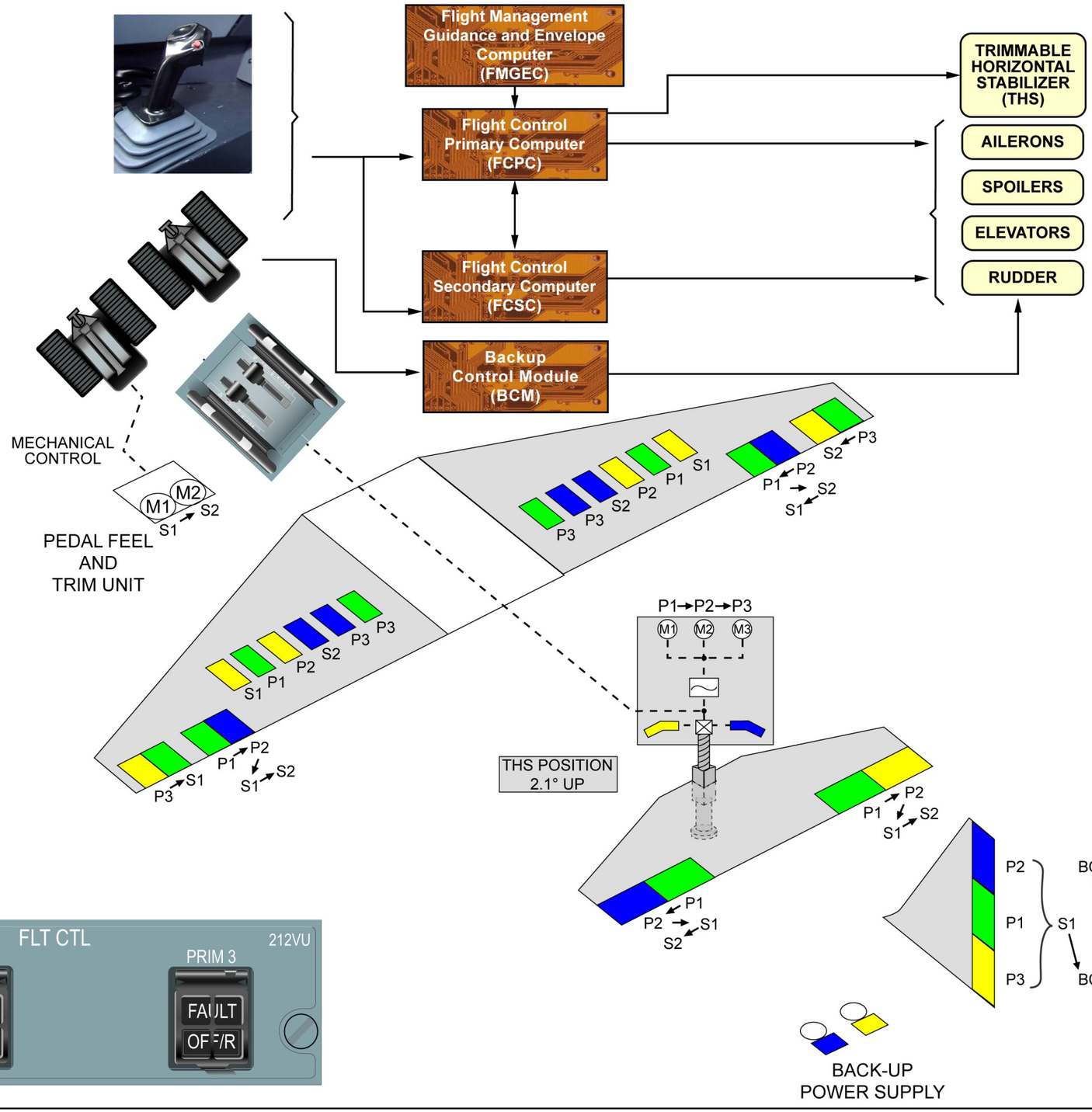


ENGINE MASTER PANEL (125 VU)


F/CTL
GBY
SPD BRK
L AIL
PRIM1 2 3
SEC 1 2
R AIL
YG
GB
GB
YG
PITCH TRIM BY
3.2°UP
L ELEV
RUD
R ELEV
GBY
BG
GY

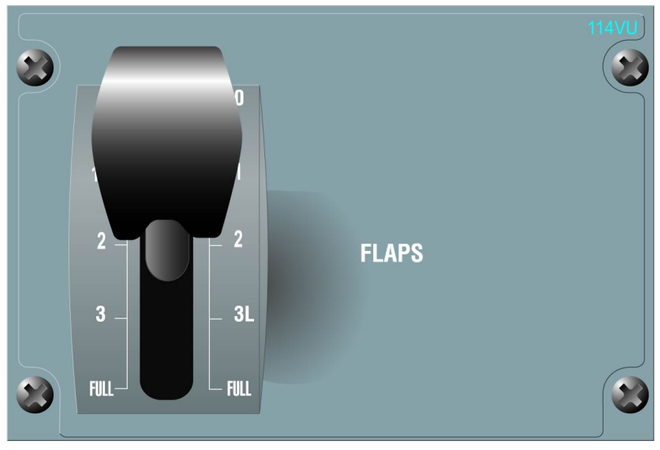
FLT CTL
241VU
TURB DAMP
OFF
PRIM 1
FAULT
OFF
SEC 1
FAULT
OFF

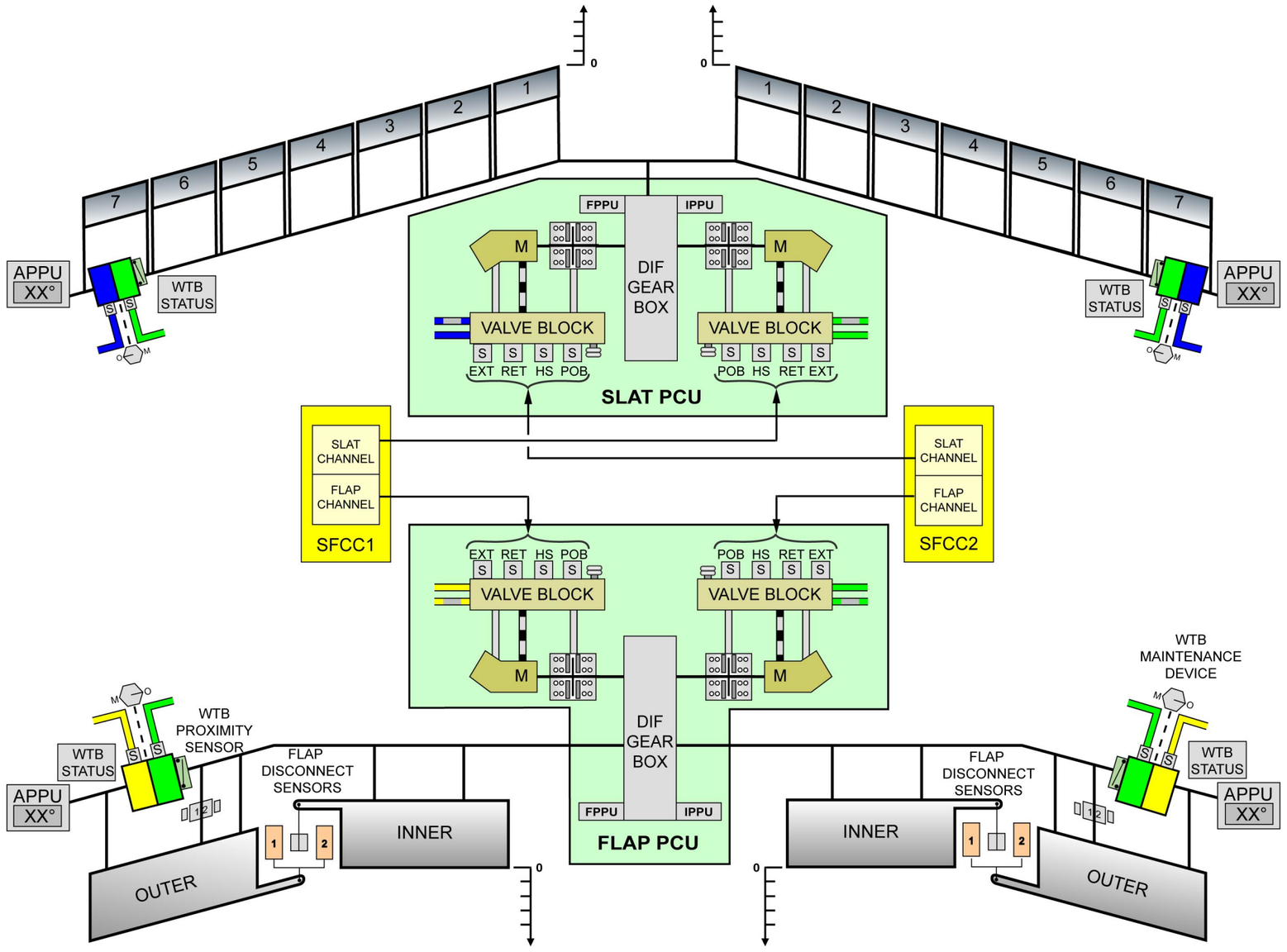
FLT CTL
212VU
PRIM 2
FAULT
OFF
SEC 2
FAULT
OFF
PRIM 3
FAULT
OFF

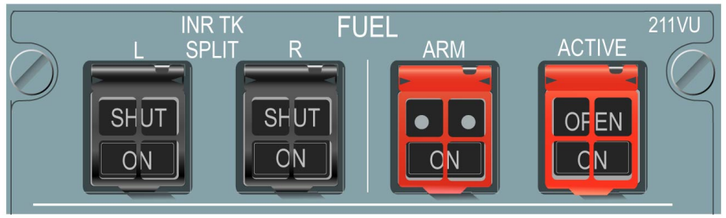

Flight Management Guidance and Envelope Computer (FMGEC)
Flight Control Primary Computer (FCPC)
Flight Control Secondary Computer (FCSC)
Backup Control Module (BCM)
TRIMMABLE HORIZONTAL STABILIZER (THS)
AILERONS
SPOILERS
ELEVATORS
RUDDER
MECHANICAL CONTROL
M1
M2
S1
S2
PEDAL FEEL AND TRIM UNIT
P1→P2→P3
M1
M2
M3
THS POSITION 2.1° UP
P1
P2
P3
S1
S2
BCM
BACK-UP POWER SUPPLY

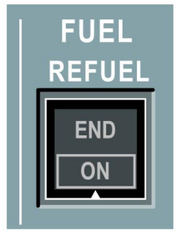
N1
%
90.1
90.1
EGT
°C
730
730
N2
%
97.3
97.3
FF
KG/H
1000
1000
S
F RELIEF
2
FOB: 12000 KG

EWD

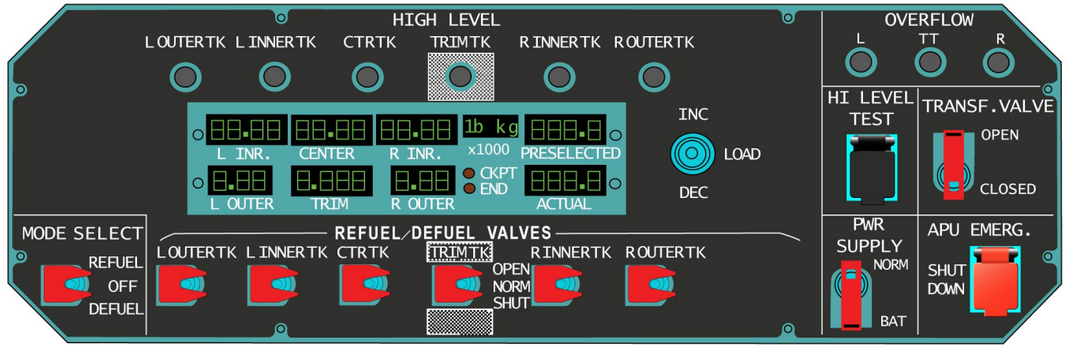

114VU
0
1
2
2
3
3L
FULL
FULL
FLAPS


0
0
1
2
3
4
5
6
7
1
2
3
4
5
6
7
APPU
XX°
WTB
STATUS
FPPU
IPPU
M
M
DIF
GEAR
BOX
VALVE BLOCK
VALVE BLOCK
EXT RET HS POB
POB HS RET EXT
SLAT PCU
SLAT
CHANNEL
FLAP
CHANNEL
SFCC1
SFCC2
WTB
PROXIMITY
SENSOR
FLAP
DISCONNECT
SENSORS
INNER
OUTER
FLAP PCU
WTB
MAINTENANCE
DEVICE

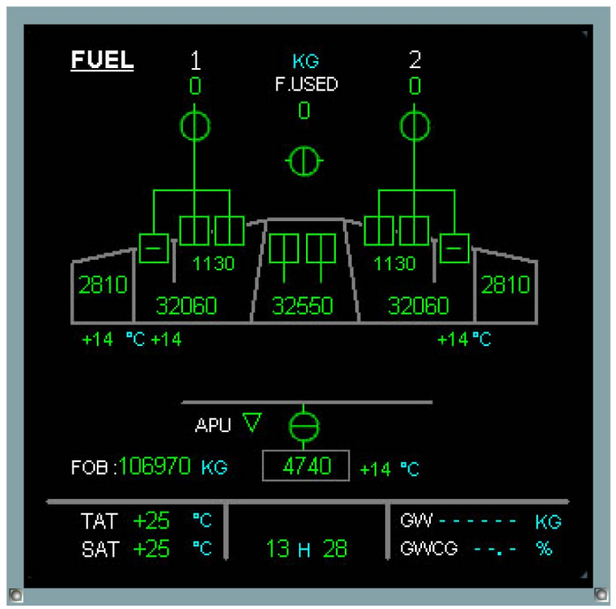


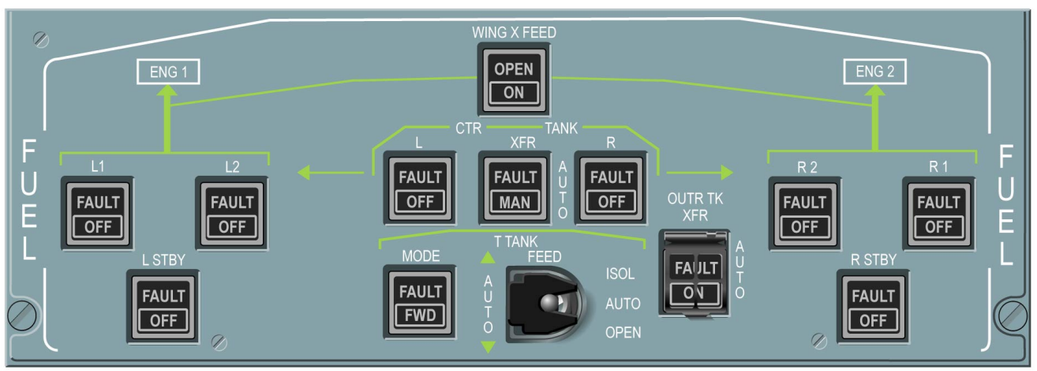


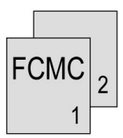
MAINTENANCE PANEL (285 VU)

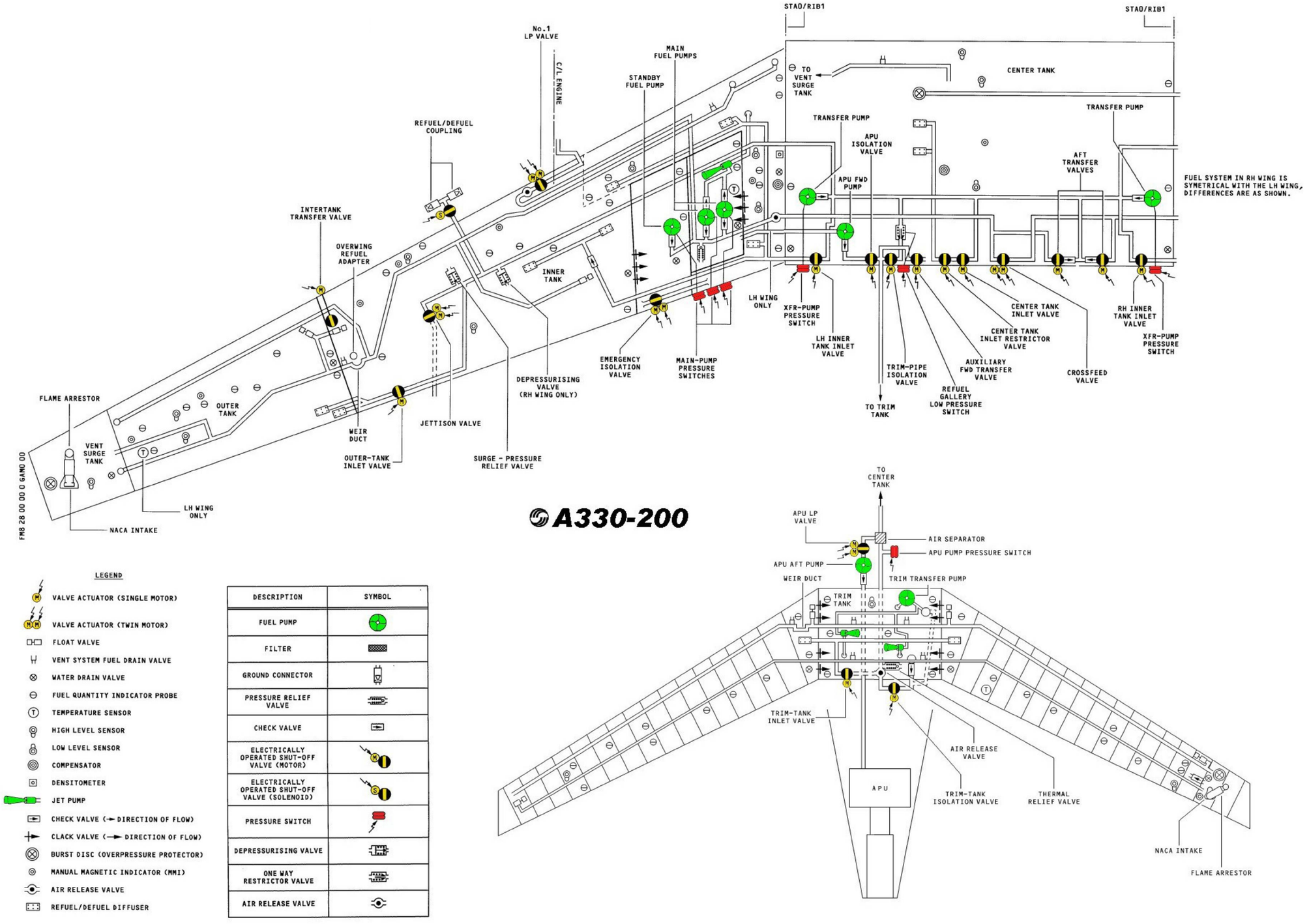


REFUEL/DEFUEL PANEL (990 VU)





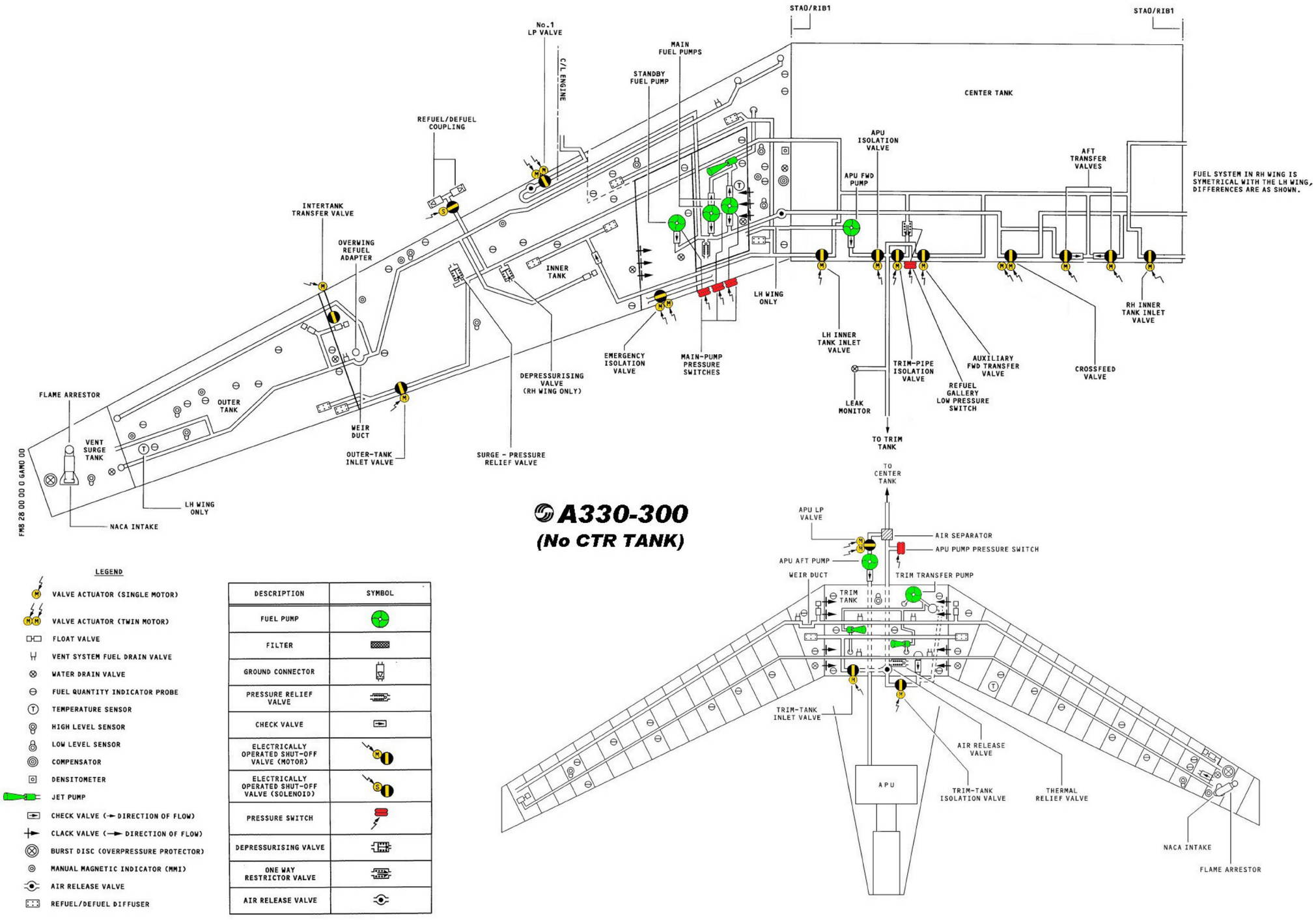




LEGEND

- VALVE ACTUATOR (SINGLE MOTOR)
- VALVE ACTUATOR (TWIN MOTOR)
- FLOAT VALVE
- VENT SYSTEM FUEL DRAIN VALVE
- WATER DRAIN VALVE
- FUEL QUANTITY INDICATOR PROBE
- TEMPERATURE SENSOR
- HIGH LEVEL SENSOR
- LOW LEVEL SENSOR
- COMPENSATOR
- DENSITOMETER
- JET PUMP
- CHECK VALVE (← DIRECTION OF FLOW)
- CLACK VALVE (→ DIRECTION OF FLOW)
- BURST DISC (OVERPRESSURE PROTECTOR)
- MANUAL MAGNETIC INDICATOR (MMI)
- AIR RELEASE VALVE
- REFUEL/DEFUEL DIFFUSER

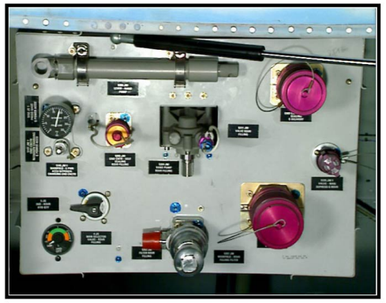
DESCRIPTION	SYMBOL
FUEL PUMP	
FILTER	
GROUND CONNECTOR	
PRESSURE RELIEF VALVE	
CHECK VALVE	
ELECTRICALLY OPERATED SHUT-OFF VALVE (MOTOR)	
ELECTRICALLY OPERATED SHUT-OFF VALVE (SOLENOID)	
PRESSURE SWITCH	
DEPRESSURISING VALVE	
ONE WAY RESTRICTOR VALVE	
AIR RELEASE VALVE	



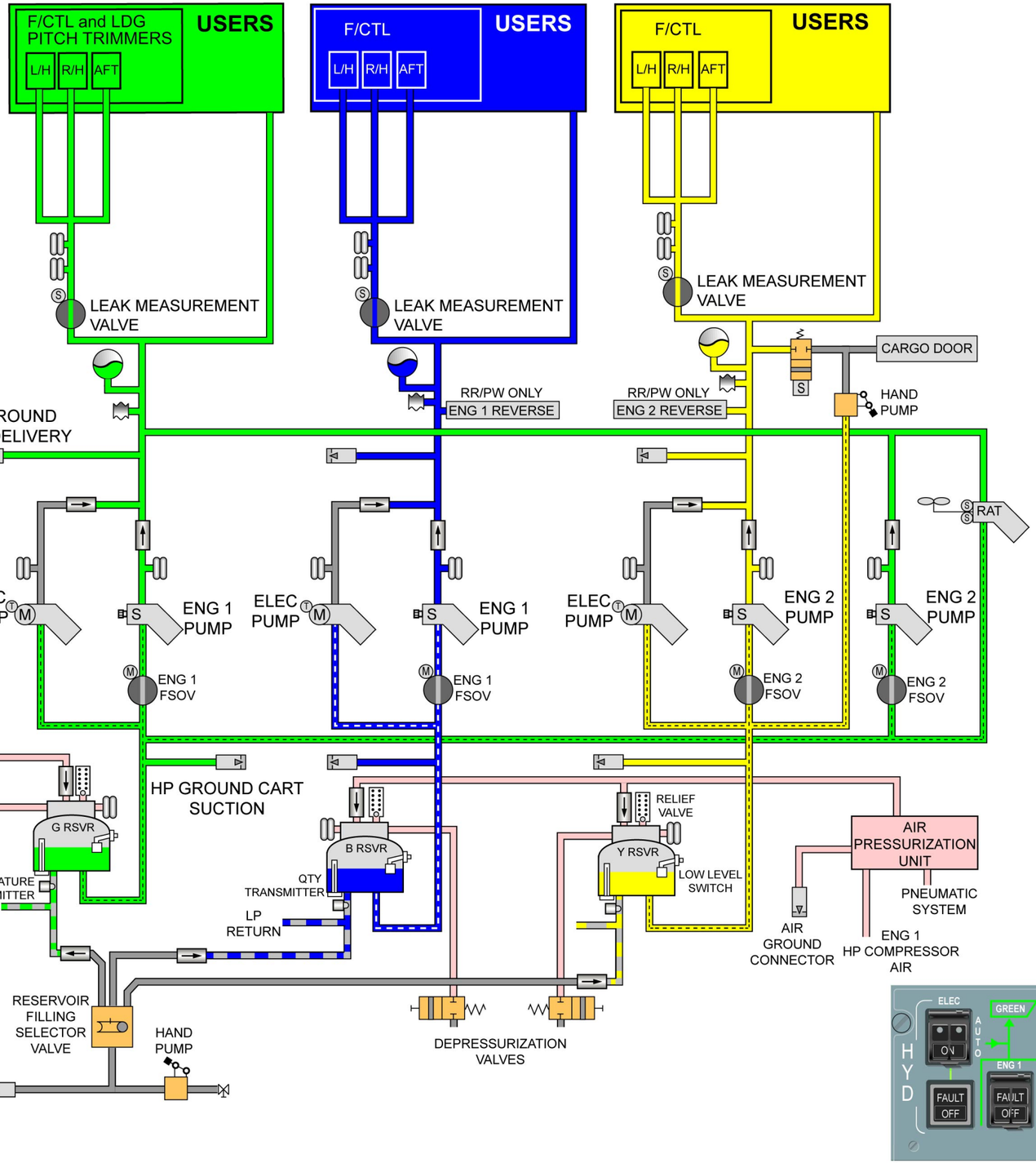
LEGEND

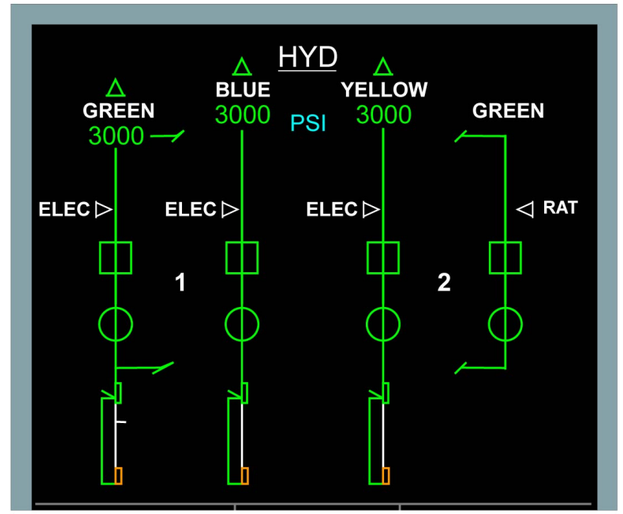
- VALVE ACTUATOR (SINGLE MOTOR)
- VALVE ACTUATOR (TWIN MOTOR)
- FLOAT VALVE
- VENT SYSTEM FUEL DRAIN VALVE
- WATER DRAIN VALVE
- FUEL QUANTITY INDICATOR PROBE
- TEMPERATURE SENSOR
- HIGH LEVEL SENSOR
- LOW LEVEL SENSOR
- COMPENSATOR
- DENSITOMETER
- JET PUMP
- CHECK VALVE (← DIRECTION OF FLOW)
- CLACK VALVE (→ DIRECTION OF FLOW)
- BURST DISC (OVERPRESSURE PROTECTOR)
- MANUAL MAGNETIC INDICATOR (MMI)
- AIR RELEASE VALVE
- REFUEL/DEFUEL DIFFUSER

DESCRIPTION	SYMBOL
FUEL PUMP	
FILTER	
GROUND CONNECTOR	
PRESSURE RELIEF VALVE	
CHECK VALVE	
ELECTRICALLY OPERATED SHUT-OFF VALVE (MOTOR)	
ELECTRICALLY OPERATED SHUT-OFF VALVE (SOLENOID)	
PRESSURE SWITCH	
DEPRESSURISING VALVE	
ONE WAY RESTRICTOR VALVE	
AIR RELEASE VALVE	

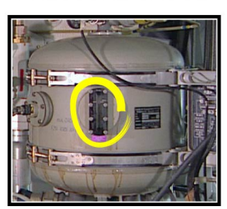


GREEN SERVICING PANEL

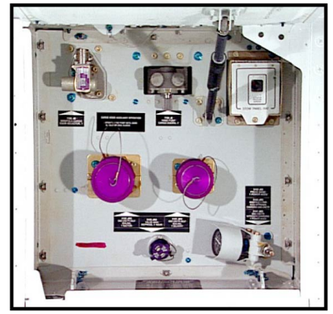




RESERVOIR AIR PRESSURE GAUGE

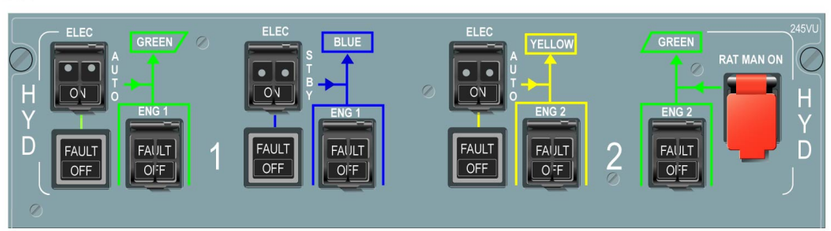


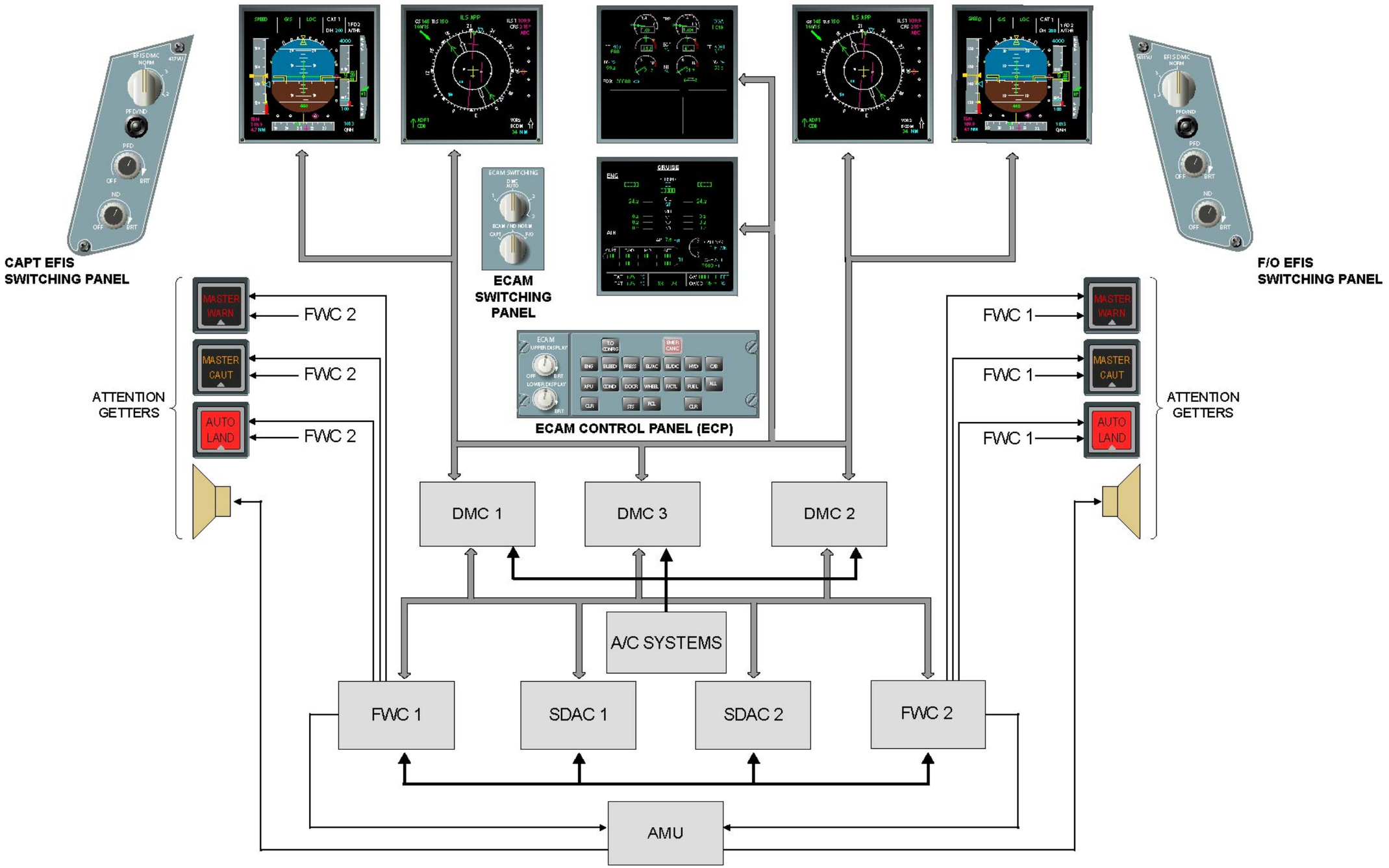
RESERVOIR DIRECT READING GAGE



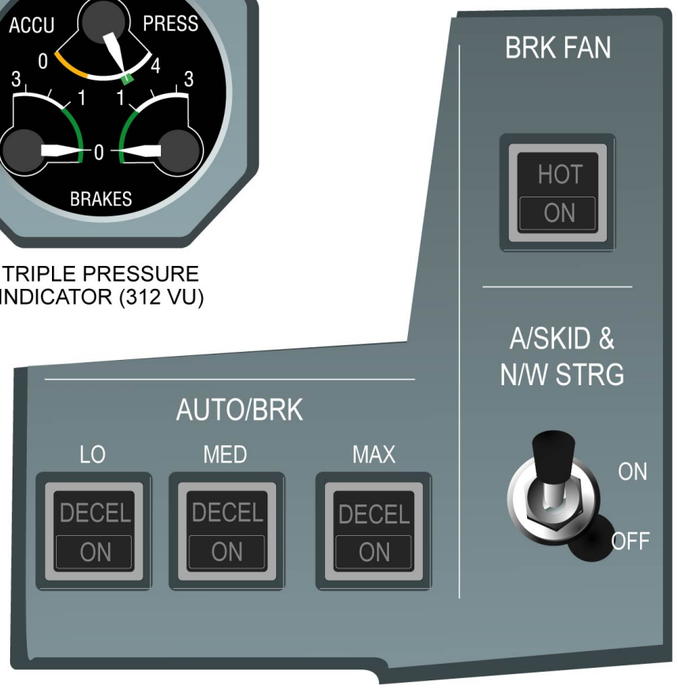
YELLOW SERVICING PANEL

BLUE SERVICING PANEL



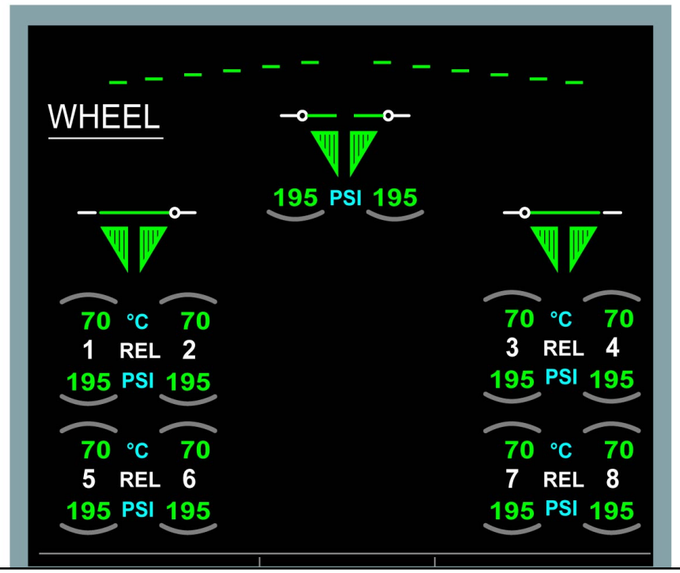

CAPT EFIS SWITCHING PANEL
F/O EFIS SWITCHING PANEL
ECAM SWITCHING PANEL
ECAM CONTROL PANEL (ECP)
ATTENTION GETTERS
MASTER WARN
MASTER CAUT
AUTO LAND
FWC 2
FWC 1
DMC 1
DMC 3
DMC 2
A/C SYSTEMS
FWC 1
SDAC 1
SDAC 2
FWC 2
AMU

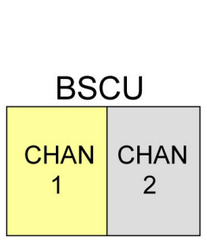
TRIPLE PRESSURE INDICATOR (312 VU)

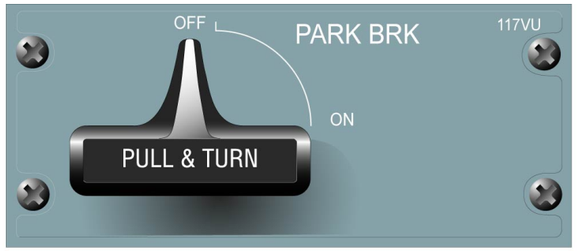


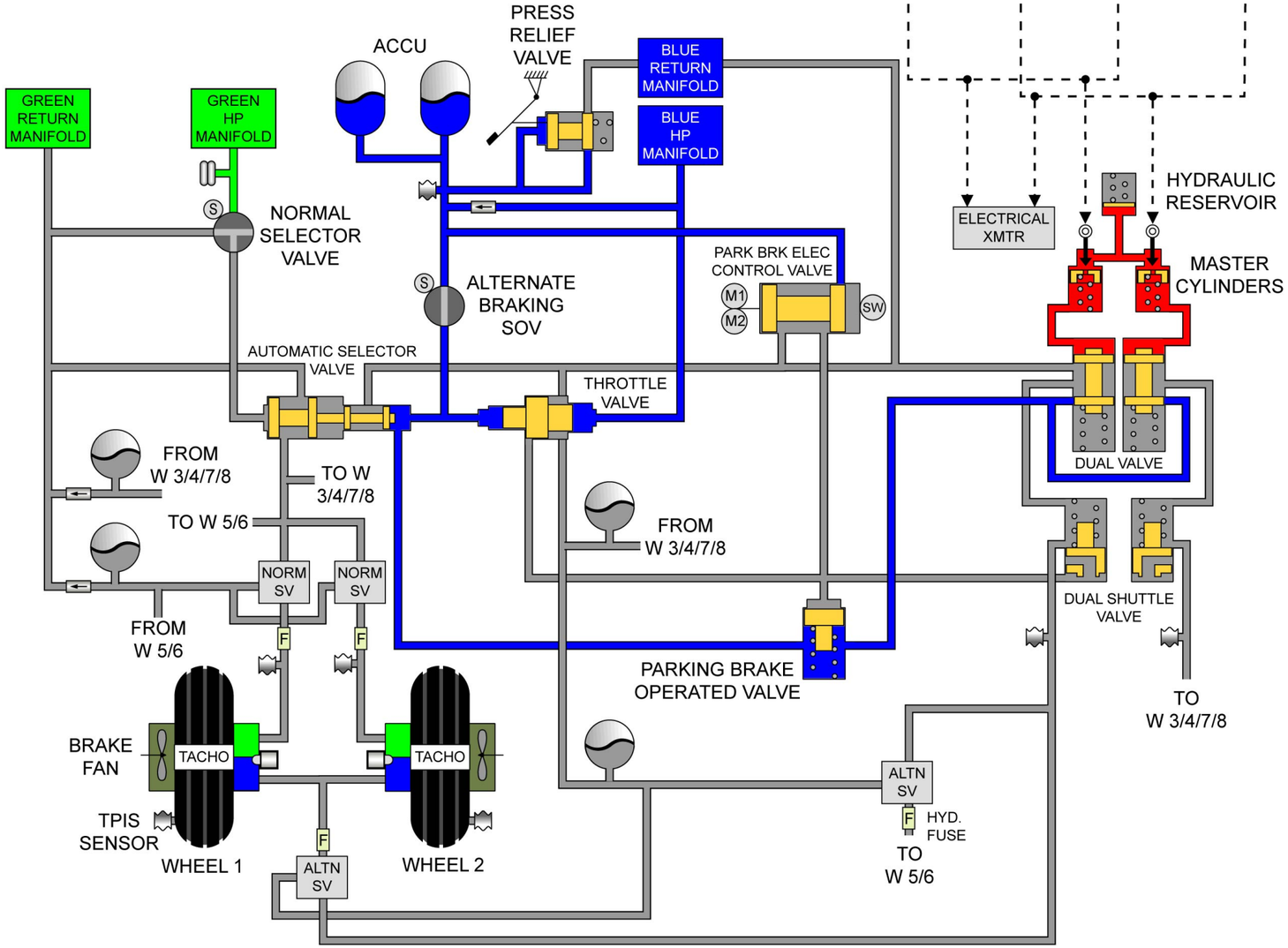
LANDING GEAR CONTROL PANEL (312 VU)

ECAM WHEEL PAGE







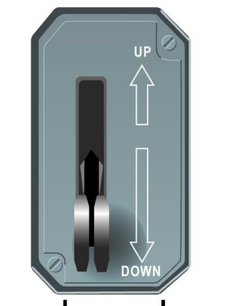


RETURN MANIFOLD
HYDRAULIC GENERATION
TO PITCH TRIMMER
S
SAFETY VALVE
1
FREE FALL CUTOUT VALVE
OTHER GEARS DOWN
GEAR
S1 S2
DOOR
S1 S2
F
SELECTOR VALVES
OTHER DOORS OPEN
OTHER DOORS CLOSE
TO NWS
2
RETURN MANIFOLD
FREE FALL VENT VALVE
OTHER GEARS UP
3
DOOR GROUND OPENING BYPASS VALVE
4
DELAY VALVE

FREE FALL ACTUATORS
LH.MLG
NLG
MOTOR1
MOTOR2
GEAR BOX
RH.MLG
2 3 4
2 3 4
1 2 3 4
FREE FALL EXTENSION SEQUENCE OF OPERATIONS

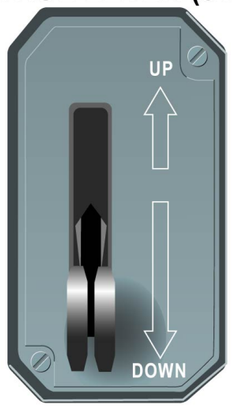
WHEEL
195 PSI 195
70 °C 70
1 REL 2
195 PSI 195
70 °C 70
3 REL 4
195 PSI 195
70 °C 70
5 REL 6
195 PSI 195
70 °C 70
7 REL 8
195 PSI 195

LANDING-GEAR CONTROL-LEVER (312VU)



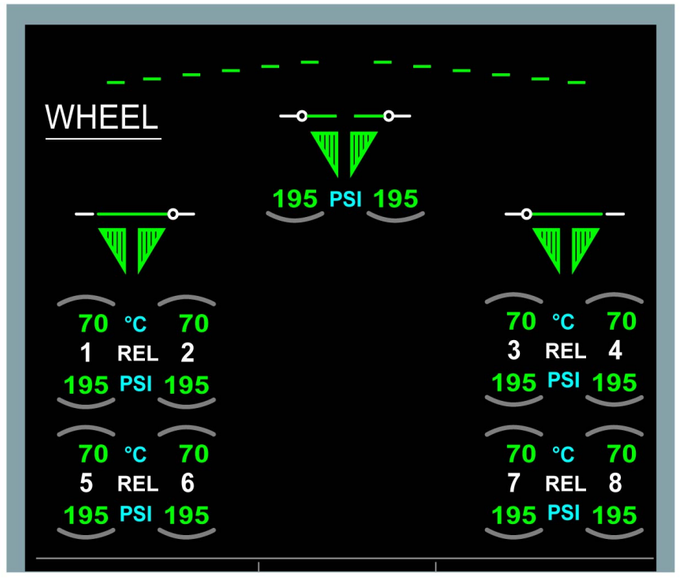
LGCIU 1
LGCIU 2
ACTIVE
STBY

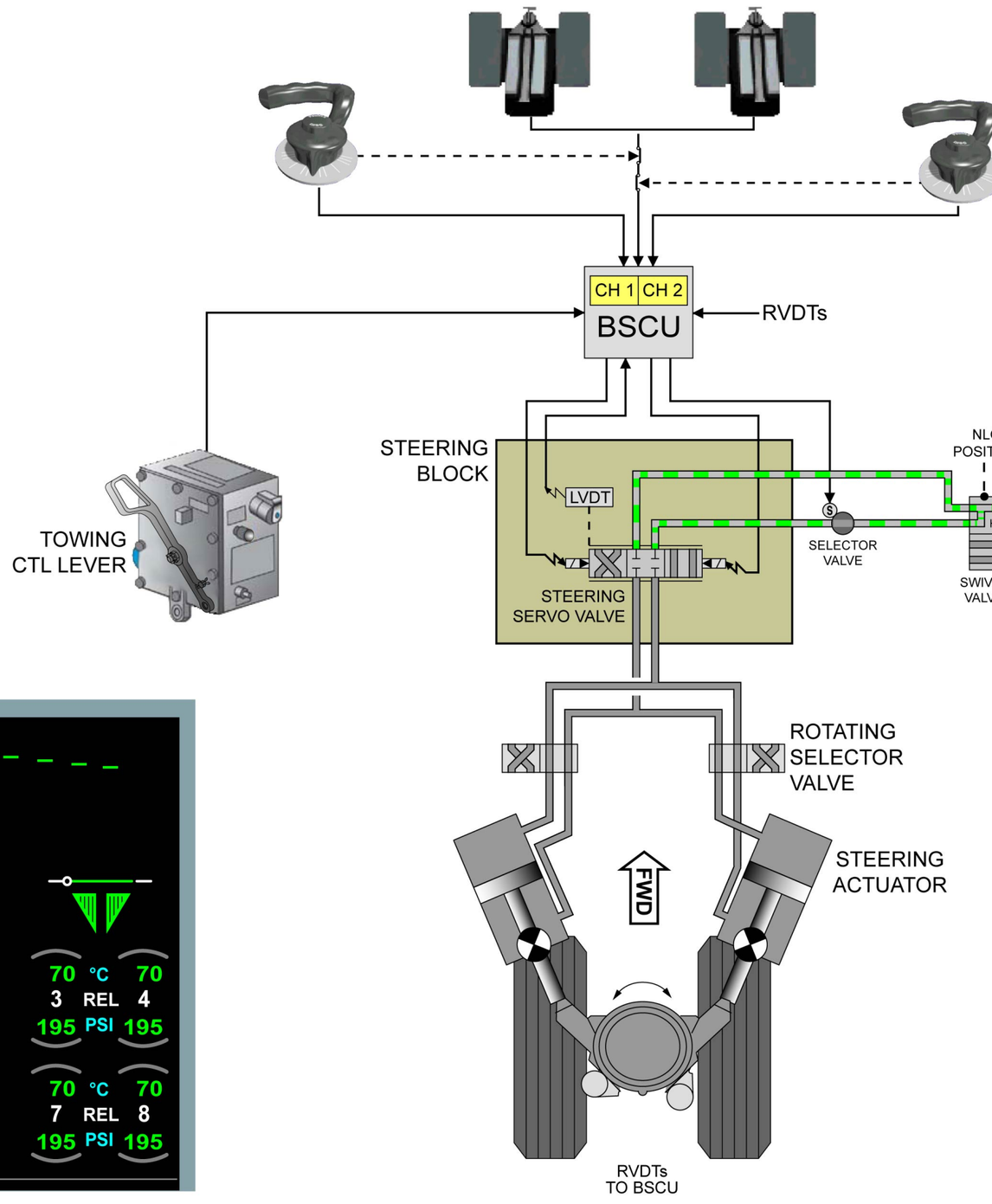
LANDING-GEAR CONTROL-LEVER (312VU)



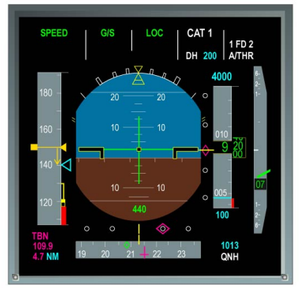
LGCIU 1 — ACTIVE

LGCIU 2 — STBY



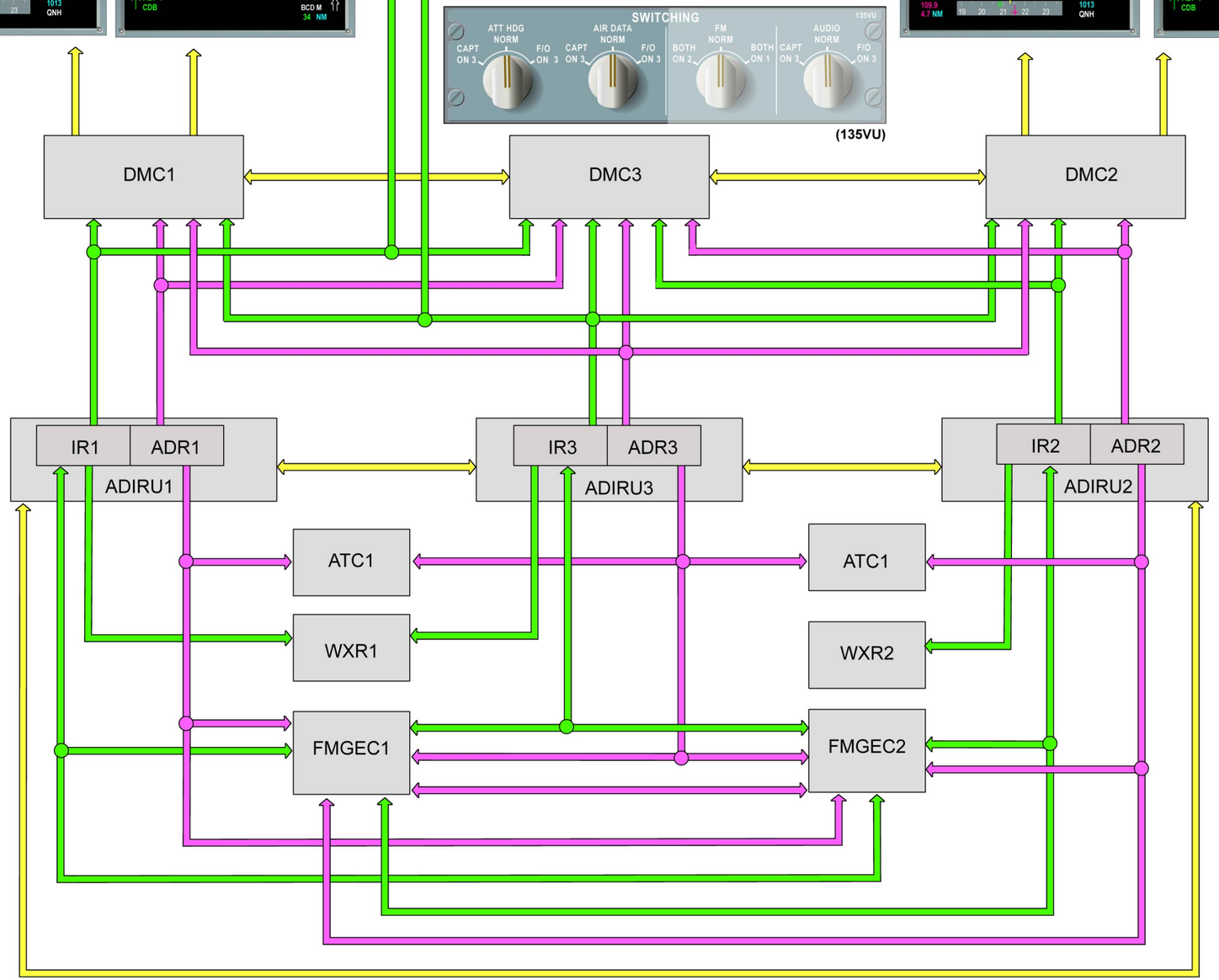


DIGITAL DISTANCE AND RADIO MAGNETIC INDICATOR (DDRMI) (311VU)



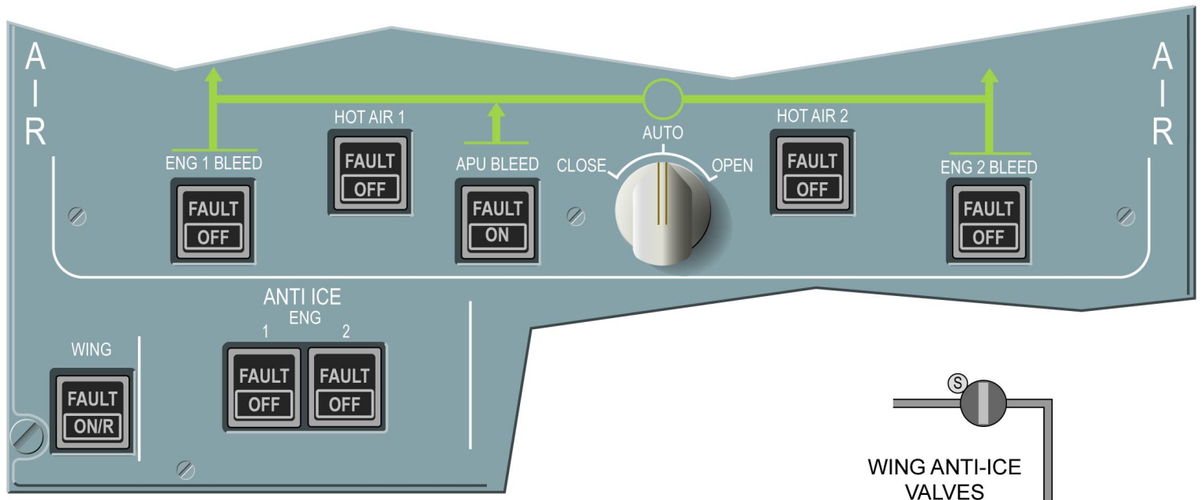
(135VU)

CAPT EFIS CONTROL PANEL

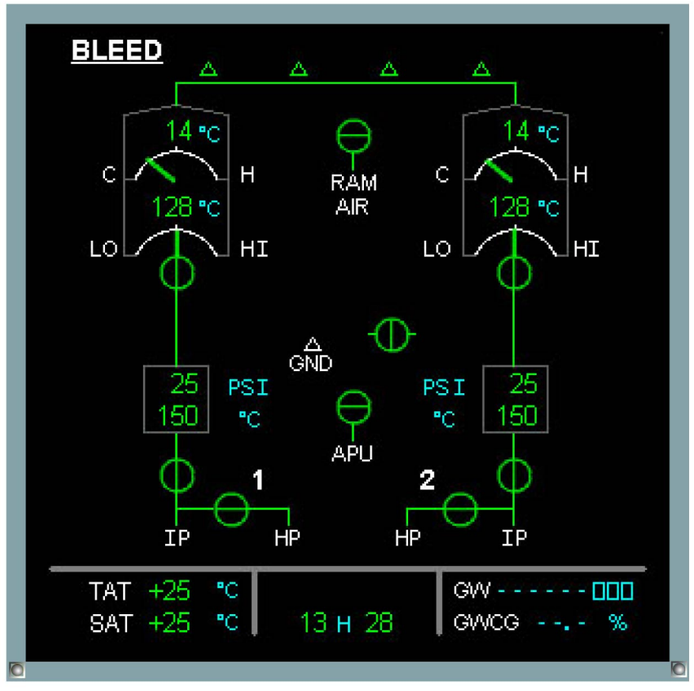


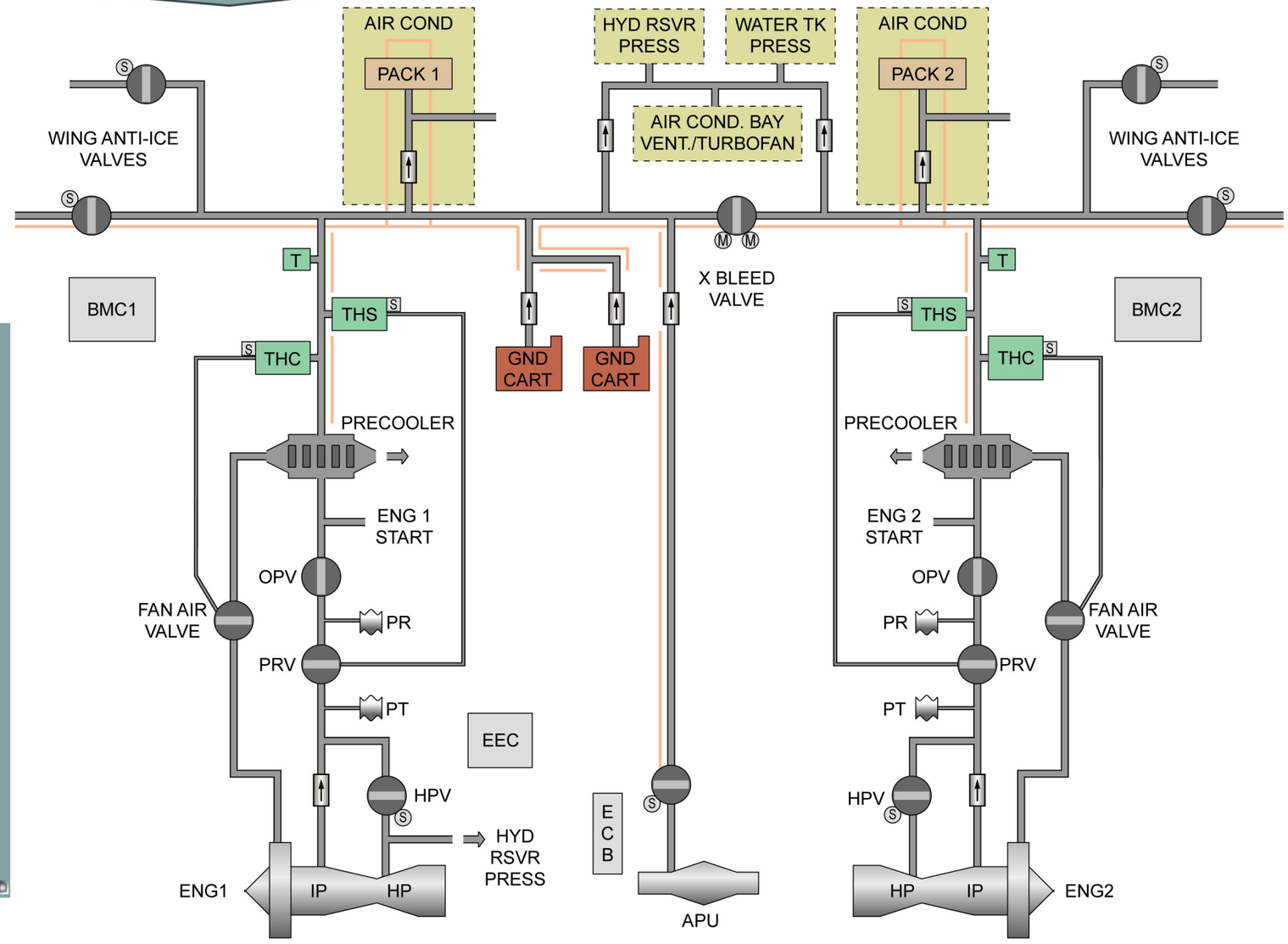
AIR DATA/INERTIAL REFERENCE UNIT (ADIRS)

MCDU



AIR CONDITIONING PANEL (225 VU)



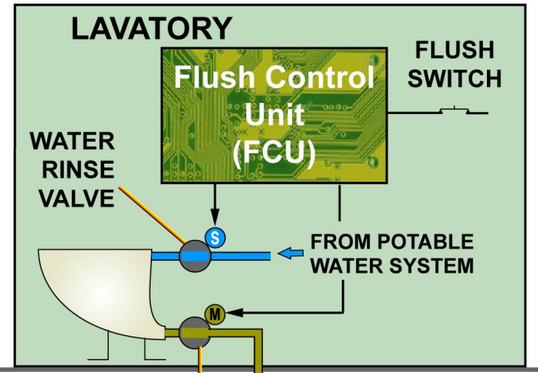


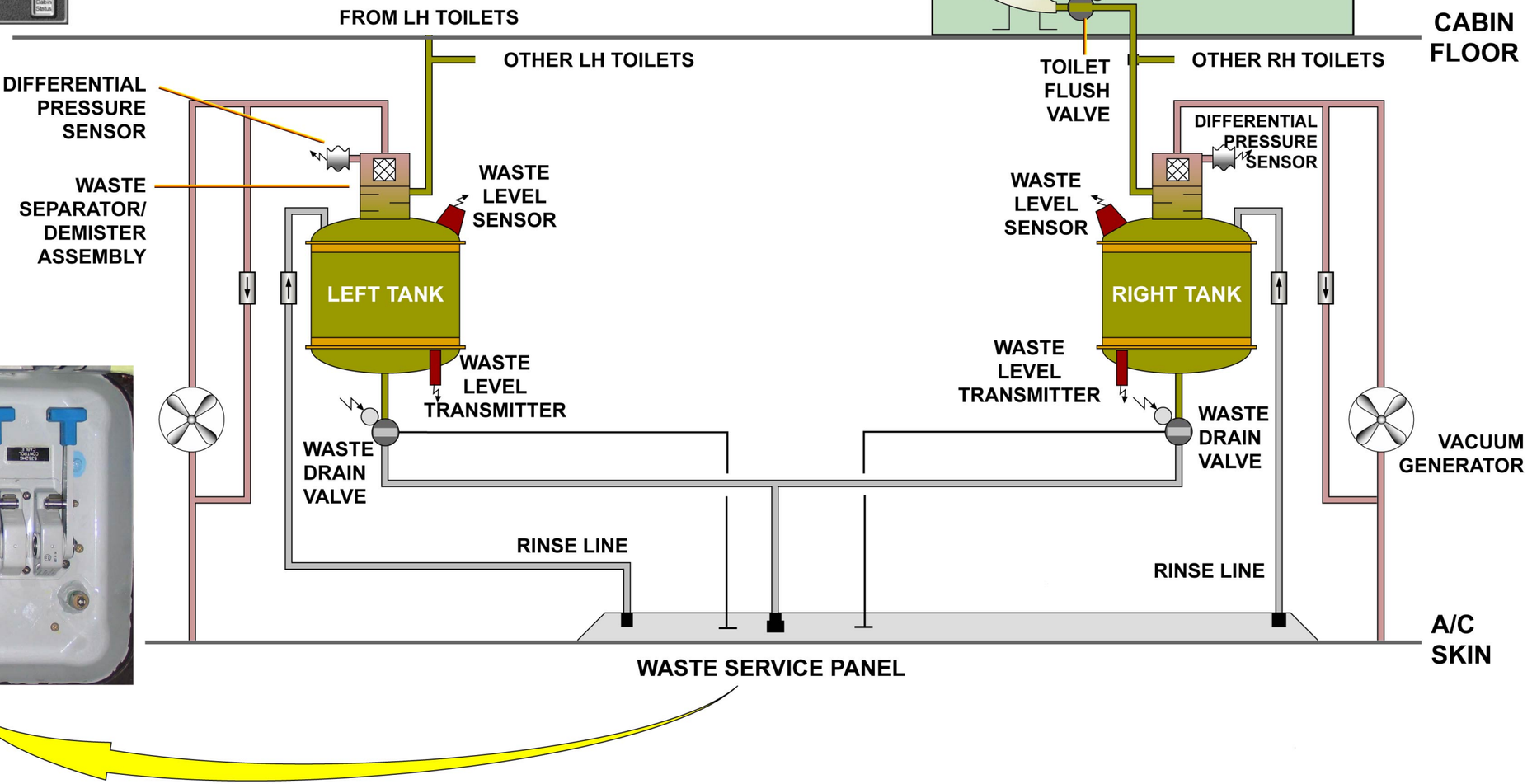
FLIGHT ATTENDANT PANEL (FAP)

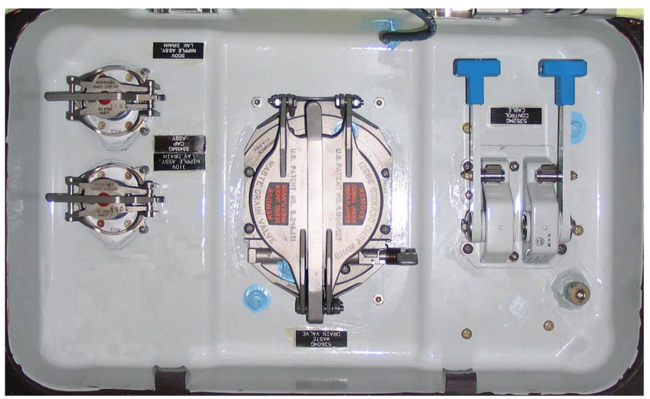
Vacuum System Controller (VSC)

FROM SENSORS, FLUSH CONTROL UNITS (FCUs), DRAIN VALVES

TO VACUUM GENERATORS







FWD LAVATORY

FWD GALLEY

WATER HEATER

TO TOILET UNIT

MANUAL SOV

VSC

CIDS

CMC

INDICATION PANEL

Preselection Unit

Preselection Unit

AIR COMPRESSOR

FLIGHT ATTENDANT PANEL (FAP)

QTY XMTR

FWD TANK

OPTIONAL TANK

QTY XMTR

AFT TANK

TO CABIN

FWD TANK SOV

AFT TANK SOV

BLEED AIR

FWD FILL AND DRAIN VALVE

AFT FILL AND DRAIN VALVE

FWD DRAIN VALVE

FILLING LINE DRAIN VALVE

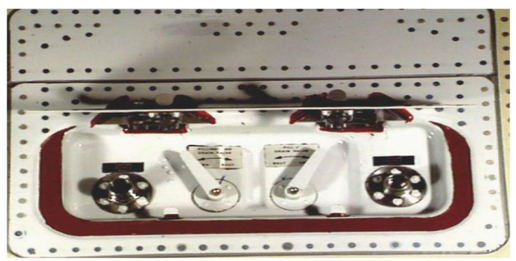
WATER QUANTITY INDICATION

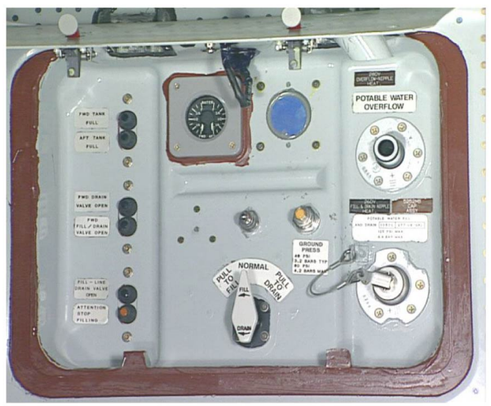
FWD DRAIN PANEL

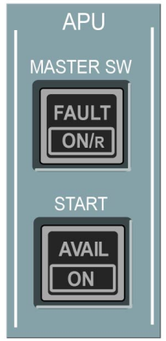
AFT DRAIN PANEL

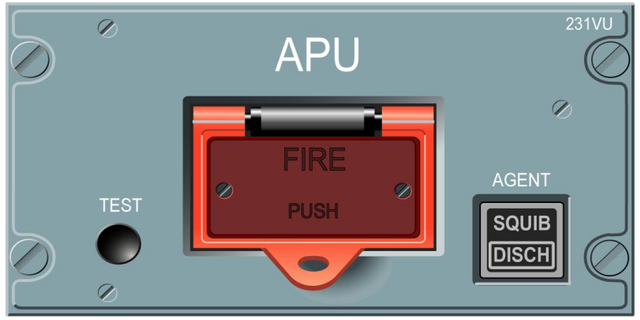
WATER SERVICE PANEL

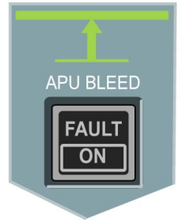
CIDS: Cabin Intercommunication Data System
CMC: Central Maintenance Computer
FAP: Flight Attendant Panel
QTY XMTR: Quantity Transmitter
SOV: Solenoid Valve
VSC: Vacuum System Controller



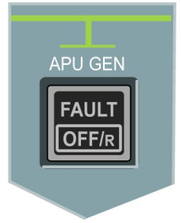




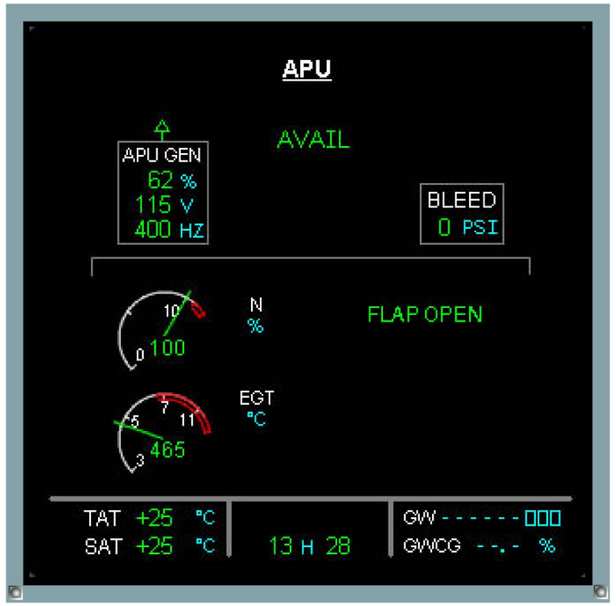




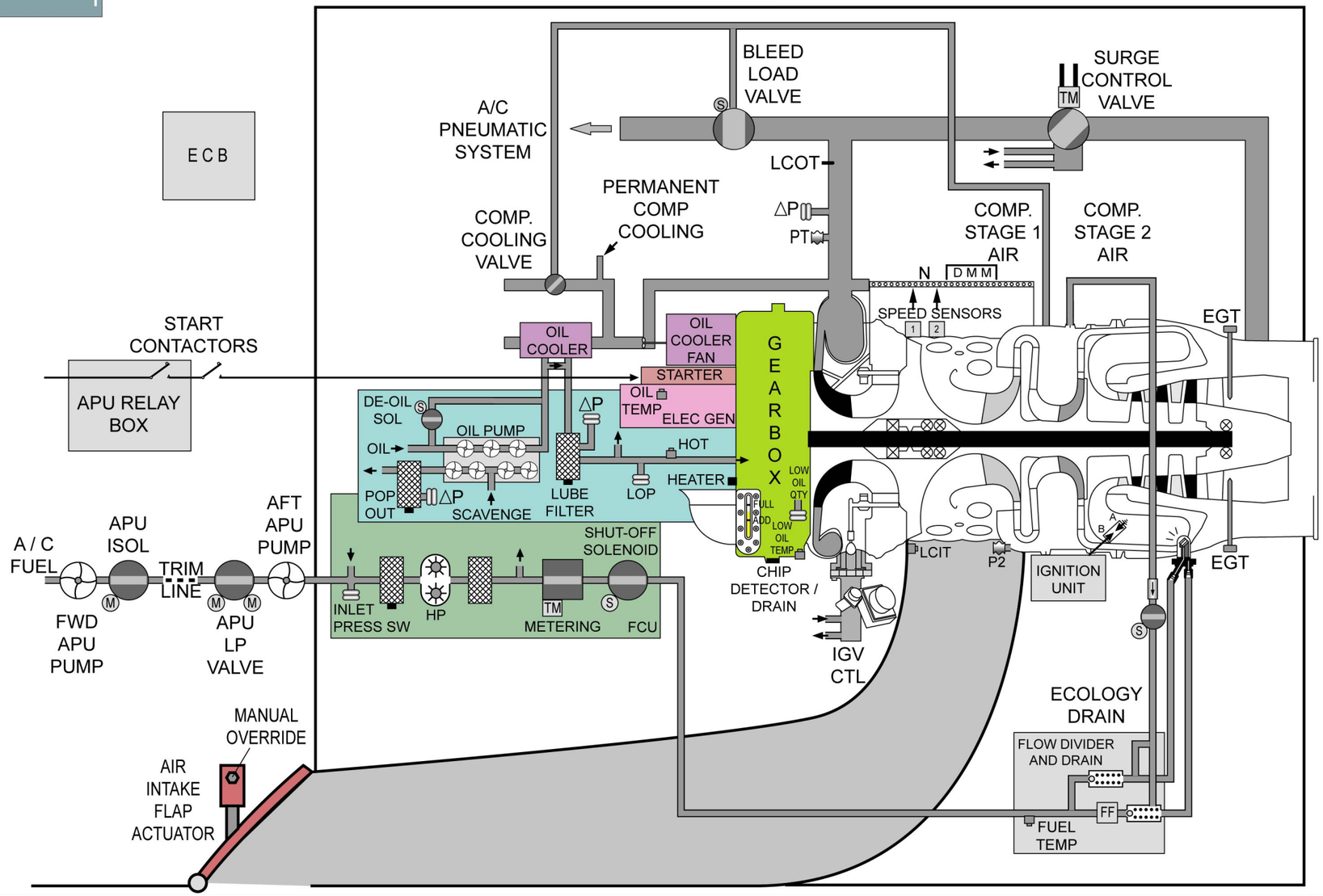
AIR COND PANEL (225 VU)

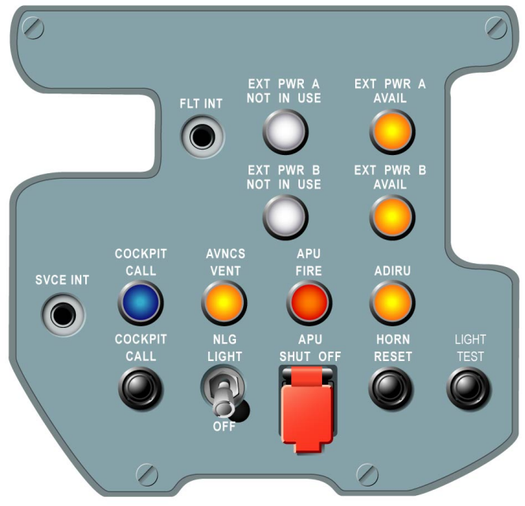


ELEC PANEL (235 VU)

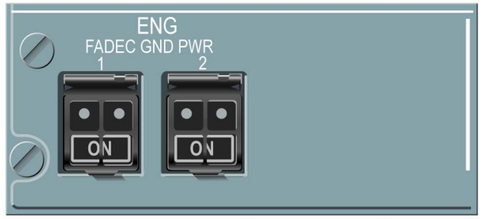


ECB



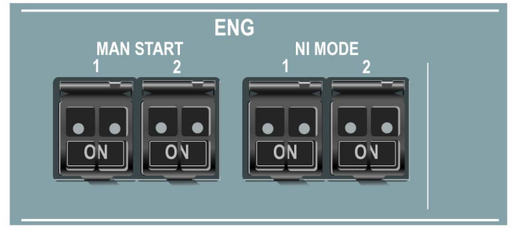
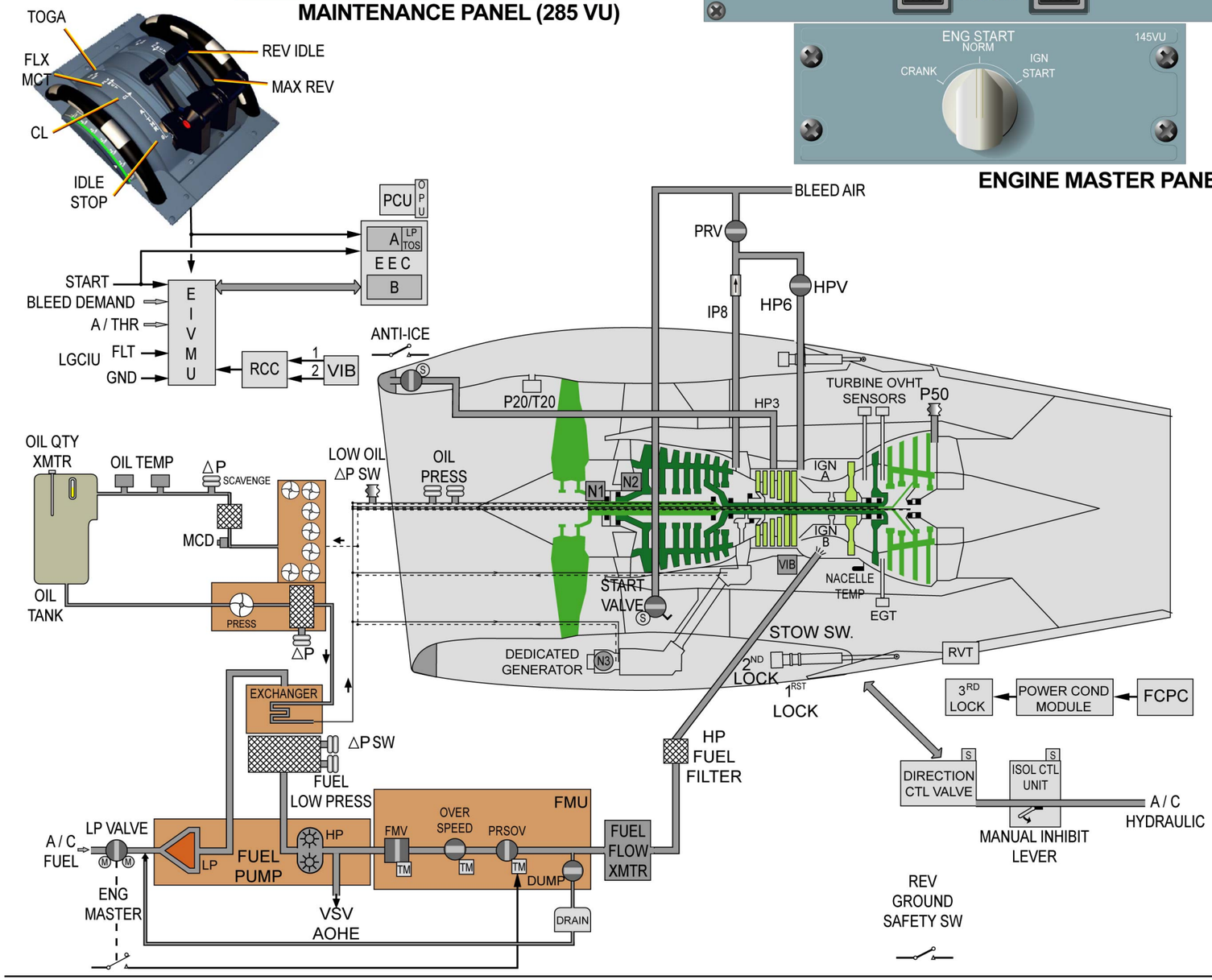


EXTERNAL POWER CONTROL PANEL (925 VU)



MAINTENANCE PANEL (285 VU)

ENGINE MASTER PANEL (125 VU)



(212 VU)